

APPENDIX F

AIR QUALITY/GREENHOUSE GAS EMISSIONS DATA

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Menlo Portal Project - Bay Area AQMD Air District, Annual

Menlo Portal Project
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	34.71	1000sqft	0.02	34,706.00	0
Unenclosed Parking with Elevator	417.00	Space	1.00	136,054.00	0
City Park	1.18	Acre	1.18	61,310.00	0
Apartments Mid Rise	335.00	Dwelling Unit	1.00	327,970.00	958

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	328.8	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 intensity based on 5-year average (PG&E, 2015)

Land Use - The proposed project would develop the project site with a 327,970-gross-square-foot (gsf), multi-family apartment building with approximately 335 dwelling units, an approximately 34,706 gsf commercial office building, as well as associated open space, circulation and parking, and infrastructure improvements.

Construction Phase - Construction is expected to begin May 2021 and end summer 2024. Phasing based on assumptions provided by Project Applicant. Architectural Coating and Paving phases are default duration.

Grading - A total of 5,000 cubic yards of soils would be imported.

Demolition - Approximately 64,832 building square footage to be demolished.

Trips and VMT - For soil import haul trips, assuming 16 cubic yards of material per load consistent with CalEEMod defaults.

Vehicle Trips - Based on trip generation prepared for the project.

Woodstoves - Assuming no hearth as the proposed project would not increase the demand for natural gas as the City's REACH codes would require the buildings to be all electric.

Stationary Sources - Emergency Generators and Fire Pumps - Assuming the emergency generators would run 50 hours per year for testing and emergency use.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting, on-site renewable energy generating 10 percent of electricity use, and energy-efficient appliances.

Water Mitigation - Assuming low-flow appliances.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Menlo Portal Project - Bay Area AQMD Air District, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
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tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	230.00	887.00
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	8.00	38.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	5.00	26.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

Menlo Portal Project - Bay Area AQMD Air District, Annual

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	50.25	0.00
tblFireplaces	NumberNoFireplace	13.40	335.00
tblFireplaces	NumberWood	56.95	0.00
tblGrading	AcresOfGrading	19.00	3.20
tblGrading	AcresOfGrading	20.00	3.20
tblGrading	MaterialImported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	34,710.00	34,706.00
tblLandUse	LandUseSquareFeet	166,800.00	136,054.00
tblLandUse	LandUseSquareFeet	51,400.80	51,319.00
tblLandUse	LandUseSquareFeet	335,000.00	327,970.00
tblLandUse	LotAcreage	0.80	0.02
tblLandUse	LotAcreage	3.75	1.00
tblLandUse	LotAcreage	8.82	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	335.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.14
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	6.39	4.87
tblVehicleTrips	ST_TR	22.75	0.00

Menlo Portal Project - Bay Area AQMD Air District, Annual

tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	5.86	4.87
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	6.65	4.87
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr											MT/yr					
2021	0.4371	4.1314	3.2136	7.7600e-003	0.7249	0.1784	0.9033	0.3227	0.1658	0.4884	0.0000	696.9576	696.9576	0.1201	0.0000	699.9602
2022	0.4486	3.6568	3.9048	0.0109	0.4832	0.1315	0.6147	0.1303	0.1237	0.2539	0.0000	985.3563	985.3563	0.1076	0.0000	988.0454
2023	0.4084	3.1888	3.7595	0.0107	0.4817	0.1127	0.5944	0.1299	0.1060	0.2359	0.0000	961.5231	961.5231	0.1039	0.0000	964.1207
2024	2.6906	1.3563	1.6792	4.6500e-003	0.2084	0.0458	0.2542	0.0562	0.0430	0.0992	0.0000	419.2815	419.2815	0.0479	0.0000	420.4792
Maximum	2.6906	4.1314	3.9048	0.0109	0.7249	0.1784	0.9033	0.3227	0.1658	0.4884	0.0000	985.3563	985.3563	0.1201	0.0000	988.0454

Menlo Portal Project - Bay Area AQMD Air District, Annual

2.1 Overall Construction

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr											MT/yr					
2021	0.2482	4.5369	3.5267	7.7600e-003	0.4470	0.1285	0.5755	0.1778	0.1283	0.3061	0.0000	696.9572	696.9572	0.1201	0.0000	699.9597
2022	0.3507	4.8992	4.1412	0.0109	0.4832	0.1462	0.6295	0.1303	0.1459	0.2762	0.0000	985.3558	985.3558	0.1076	0.0000	988.0450
2023	0.3317	4.6193	4.0138	0.0107	0.4817	0.1445	0.6262	0.1299	0.1443	0.2741	0.0000	961.5227	961.5227	0.1039	0.0000	964.1203
2024	2.6633	2.0990	1.8030	4.6500e-003	0.2084	0.0666	0.2749	0.0562	0.0665	0.1226	0.0000	419.2815	419.2815	0.0479	0.0000	420.4790
Maximum	2.6633	4.8992	4.1412	0.0109	0.4832	0.1462	0.6295	0.1778	0.1459	0.3061	0.0000	985.3558	985.3558	0.1201	0.0000	988.0450

	ROG	NOx	CO	SO2	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	9.81	-30.98	-7.39	0.00	14.64	-3.73	11.01	22.68	-10.60	9.13	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)
1	5-3-2021	8-2-2021	1.9156	1.7859
2	8-3-2021	11-2-2021	1.8798	2.0915
3	11-3-2021	2-2-2022	1.1057	1.3432
4	2-3-2022	5-2-2022	1.0030	1.2819
5	5-3-2022	8-2-2022	1.0303	1.3186
6	8-3-2022	11-2-2022	1.0339	1.3223
7	11-3-2022	2-2-2023	0.9954	1.3031
8	2-3-2023	5-2-2023	0.8821	1.2131

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9	5-3-2023	8-2-2023	0.9065	1.2486
10	8-3-2023	11-2-2023	0.9095	1.2516
11	11-3-2023	2-2-2024	0.8976	1.2545
12	2-3-2024	5-2-2024	0.8450	1.2199
13	5-3-2024	8-2-2024	2.7622	2.9580
		Highest	2.7622	2.9580

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	1.7790	0.0326	2.7297	9.1000e-004		0.0528	0.0528		0.0528	0.0528	5.2249	4.0712	9.2961	0.0284	0.0000	10.0048
Energy	0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	506.7758	506.7758	0.0315	9.2600e-003	510.3228
Mobile	0.3489	1.5878	3.9434	0.0152	1.4021	0.0124	1.4145	0.3763	0.0116	0.3878	0.0000	1,397,128.1	1,397,128.1	0.0475	0.0000	1,398,316.7
Stationary	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Waste						0.0000	0.0000		0.0000	0.0000	37.8538	0.0000	37.8538	2.2371	0.0000	93.7811
Water						0.0000	0.0000		0.0000	0.0000	8.8818	32.4830	41.3648	0.9151	0.0221	70.8380
Total	2.1610	1.8264	6.7932	0.0172	1.4021	0.0806	1.4827	0.3763	0.0798	0.4561	51.9604	1,946,836.5	1,998,796.9	3.2604	0.0314	2,089,664.1

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2.2 Overall Operational

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	1.7527	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692
Energy	0.0184	0.1589	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	479.3587	479.3587	0.0297	8.7600e-003	482.7132
Mobile	0.3319	1.4856	3.5483	0.0133	1.2114	0.0109	1.2223	0.3251	0.0102	0.3353	0.0000	1,221,655.4	1,221,655.4	0.0429	0.0000	1,222,726.7
Stationary	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Waste						0.0000	0.0000		0.0000	0.0000	9.4634	0.0000	9.4634	0.5593	0.0000	23.4453
Water						0.0000	0.0000		0.0000	0.0000	7.1054	27.9645	35.0699	0.7323	0.0177	58.6636
Total	2.1167	1.7115	6.1542	0.0145	1.2114	0.0394	1.2508	0.3251	0.0387	0.3638	16.5688	1,739,428.2	1,755,997.0	1.3689	0.0265	1,798,118.7

	ROG	NOx	CO	SO2	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	2.05	6.29	9.41	15.96	13.60	51.09	15.64	13.60	51.50	20.23	68.11	10.65	12.15	58.01	15.58	13.95

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/3/2021	7/2/2021	6	53	
2	Site Preparation	Site Preparation	7/5/2021	8/3/2021	6	26	
3	Rough Grading	Grading	7/5/2021	8/17/2021	6	38	
4	Fine Grading	Grading	8/2/2021	9/16/2021	6	40	
5	Building Construction	Building Construction	8/2/2021	5/31/2024	6	887	
6	Paving	Paving	6/3/2024	6/22/2024	6	18	
7	Architectural Coating	Architectural Coating	6/3/2024	6/22/2024	6	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 664,139; Residential Outdoor: 221,380; Non-Residential Indoor: 52,059; Non-Residential Outdoor: 17,353; Striped Parking Area: 8,163 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Fine Grading	Excavators	1	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	295.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	0.00	625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	331.00	72.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	66.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0319	0.0000	0.0319	4.8300e-003	0.0000	4.8300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0839	0.8332	0.5715	1.0300e-003		0.0411	0.0411		0.0382	0.0382	0.0000	90.1021	90.1021	0.0254	0.0000	90.7361
Total	0.0839	0.8332	0.5715	1.0300e-003	0.0319	0.0411	0.0730	4.8300e-003	0.0382	0.0430	0.0000	90.1021	90.1021	0.0254	0.0000	90.7361

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1600e-003	0.0398	8.4800e-003	1.1000e-004	2.4900e-003	1.2000e-004	2.6100e-003	6.9000e-004	1.2000e-004	8.0000e-004	0.0000	11.1590	11.1590	5.7000e-004	0.0000	11.1733
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	8.4000e-004	8.9200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	2.0000e-005	8.5000e-004	0.0000	2.6553	2.6553	6.0000e-005	0.0000	2.6568
Total	2.3800e-003	0.0407	0.0174	1.4000e-004	5.6300e-003	1.4000e-004	5.7700e-003	1.5300e-003	1.4000e-004	1.6500e-003	0.0000	13.8143	13.8143	6.3000e-004	0.0000	13.8300

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0144	0.0000	0.0144	2.1700e-003	0.0000	2.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.8656	0.6539	1.0300e-003		0.0242	0.0242		0.0242	0.0242	0.0000	90.1020	90.1020	0.0254	0.0000	90.7360
Total	0.0334	0.8656	0.6539	1.0300e-003	0.0144	0.0242	0.0386	2.1700e-003	0.0242	0.0264	0.0000	90.1020	90.1020	0.0254	0.0000	90.7360

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1600e-003	0.0398	8.4800e-003	1.1000e-004	2.4900e-003	1.2000e-004	2.6100e-003	6.9000e-004	1.2000e-004	8.0000e-004	0.0000	11.1590	11.1590	5.7000e-004	0.0000	11.1733
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	8.4000e-004	8.9200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	2.0000e-005	8.5000e-004	0.0000	2.6553	2.6553	6.0000e-005	0.0000	2.6568
Total	2.3800e-003	0.0407	0.0174	1.4000e-004	5.6300e-003	1.4000e-004	5.7700e-003	1.5300e-003	1.4000e-004	1.6500e-003	0.0000	13.8143	13.8143	6.3000e-004	0.0000	13.8300

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2349	0.0000	0.2349	0.1291	0.0000	0.1291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0506	0.5265	0.2750	4.9000e-004		0.0266	0.0266		0.0245	0.0245	0.0000	43.4664	43.4664	0.0141	0.0000	43.8179
Total	0.0506	0.5265	0.2750	4.9000e-004	0.2349	0.0266	0.2614	0.1291	0.0245	0.1536	0.0000	43.4664	43.4664	0.0141	0.0000	43.8179

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.2000e-004	5.0000e-004	5.2500e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5631	1.5631	4.0000e-005	0.0000	1.5640
Total	7.2000e-004	5.0000e-004	5.2500e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5631	1.5631	4.0000e-005	0.0000	1.5640

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1057	0.0000	0.1057	0.0581	0.0000	0.0581	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0157	0.4384	0.2985	4.9000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	43.4664	43.4664	0.0141	0.0000	43.8178
Total	0.0157	0.4384	0.2985	4.9000e-004	0.1057	0.0123	0.1180	0.0581	0.0123	0.0704	0.0000	43.4664	43.4664	0.0141	0.0000	43.8178

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.2000e-004	5.0000e-004	5.2500e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5631	1.5631	4.0000e-005	0.0000	1.5640
Total	7.2000e-004	5.0000e-004	5.2500e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5631	1.5631	4.0000e-005	0.0000	1.5640

3.4 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1164	0.0000	0.1164	0.0631	0.0000	0.0631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0435	0.4700	0.3013	5.6000e-004		0.0220	0.0220		0.0203	0.0203	0.0000	49.5020	49.5020	0.0160	0.0000	49.9023
Total	0.0435	0.4700	0.3013	5.6000e-004	0.1164	0.0220	0.1384	0.0631	0.0203	0.0834	0.0000	49.5020	49.5020	0.0160	0.0000	49.9023

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.4 Rough Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4600e-003	0.0843	0.0180	2.4000e-004	5.2800e-003	2.6000e-004	5.5400e-003	1.4500e-003	2.5000e-004	1.7000e-003	0.0000	23.6420	23.6420	1.2100e-003	0.0000	23.6721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	6.0000e-004	6.3900e-003	2.0000e-005	2.2500e-003	1.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.1000e-004	0.0000	1.9038	1.9038	4.0000e-005	0.0000	1.9048
Total	3.3300e-003	0.0849	0.0244	2.6000e-004	7.5300e-003	2.7000e-004	7.8100e-003	2.0500e-003	2.6000e-004	2.3100e-003	0.0000	25.5457	25.5457	1.2500e-003	0.0000	25.5770

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0524	0.0000	0.0524	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0192	0.4993	0.3608	5.6000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	49.5020	49.5020	0.0160	0.0000	49.9022
Total	0.0192	0.4993	0.3608	5.6000e-004	0.0524	0.0147	0.0671	0.0284	0.0147	0.0431	0.0000	49.5020	49.5020	0.0160	0.0000	49.9022

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.4 Rough Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4600e-003	0.0843	0.0180	2.4000e-004	5.2800e-003	2.6000e-004	5.5400e-003	1.4500e-003	2.5000e-004	1.7000e-003	0.0000	23.6420	23.6420	1.2100e-003	0.0000	23.6721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	6.0000e-004	6.3900e-003	2.0000e-005	2.2500e-003	1.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.1000e-004	0.0000	1.9038	1.9038	4.0000e-005	0.0000	1.9048
Total	3.3300e-003	0.0849	0.0244	2.6000e-004	7.5300e-003	2.7000e-004	7.8100e-003	2.0500e-003	2.6000e-004	2.3100e-003	0.0000	25.5457	25.5457	1.2500e-003	0.0000	25.5770

3.5 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1221	0.0000	0.1221	0.0664	0.0000	0.0664	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0458	0.4947	0.3172	5.9000e-004		0.0232	0.0232		0.0213	0.0213	0.0000	52.1074	52.1074	0.0169	0.0000	52.5287
Total	0.0458	0.4947	0.3172	5.9000e-004	0.1221	0.0232	0.1453	0.0664	0.0213	0.0877	0.0000	52.1074	52.1074	0.0169	0.0000	52.5287

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.5 Fine Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051
Total	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0550	0.0000	0.0550	0.0299	0.0000	0.0299	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.5256	0.3798	5.9000e-004		0.0155	0.0155		0.0155	0.0155	0.0000	52.1073	52.1073	0.0169	0.0000	52.5287
Total	0.0202	0.5256	0.3798	5.9000e-004	0.0550	0.0155	0.0704	0.0299	0.0155	0.0453	0.0000	52.1073	52.1073	0.0169	0.0000	52.5287

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.5 Fine Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051
Total	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1245	1.1418	1.0857	1.7600e-003		0.0628	0.0628		0.0590	0.0590	0.0000	151.7224	151.7224	0.0366	0.0000	152.6375
Total	0.1245	1.1418	1.0857	1.7600e-003		0.0628	0.0628		0.0590	0.0590	0.0000	151.7224	151.7224	0.0366	0.0000	152.6375

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0150	0.4926	0.1230	1.2700e-003	0.0309	1.0700e-003	0.0320	8.9400e-003	1.0200e-003	9.9700e-003	0.0000	122.3066	122.3066	6.0100e-003	0.0000	122.4569
Worker	0.0665	0.0459	0.4863	1.6000e-003	0.1713	1.1200e-003	0.1724	0.0456	1.0300e-003	0.0466	0.0000	144.8236	144.8236	3.2500e-003	0.0000	144.9048
Total	0.0815	0.5385	0.6092	2.8700e-003	0.2023	2.1900e-003	0.2044	0.0545	2.0500e-003	0.0566	0.0000	267.1302	267.1302	9.2600e-003	0.0000	267.3617

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	0.0708	1.5428	1.1707	1.7600e-003		0.0592	0.0592		0.0592	0.0592	0.0000	151.7222	151.7222	0.0366	0.0000	152.6373
Total	0.0708	1.5428	1.1707	1.7600e-003		0.0592	0.0592		0.0592	0.0592	0.0000	151.7222	151.7222	0.0366	0.0000	152.6373

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M1/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	0.0150	0.4926	0.1230	1.2700e-003	0.0309	1.0700e-003	0.0320	8.9400e-003	1.0200e-003	9.9700e-003	0.0000	122.3066	122.3066	6.0100e-003	0.0000	122.4569
Worker	0.0665	0.0459	0.4863	1.6000e-003	0.1713	1.1200e-003	0.1724	0.0456	1.0300e-003	0.0466	0.0000	144.8236	144.8236	3.2500e-003	0.0000	144.9048
Total	0.0815	0.5385	0.6092	2.8700e-003	0.2023	2.1900e-003	0.2044	0.0545	2.0500e-003	0.0566	0.0000	267.1302	267.1302	9.2600e-003	0.0000	267.3617

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2670	2.4439	2.5609	4.2200e-003		0.1266	0.1266		0.1191	0.1191	0.0000	362.6500	362.6500	0.0869	0.0000	364.8220
Total	0.2670	2.4439	2.5609	4.2200e-003		0.1266	0.1266		0.1191	0.1191	0.0000	362.6500	362.6500	0.0869	0.0000	364.8220

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0334	1.1146	0.2762	3.0100e-003	0.0739	2.2200e-003	0.0761	0.0214	2.1200e-003	0.0235	0.0000	289.3633	289.3633	0.0137	0.0000	289.7066
Worker	0.1482	0.0963	1.0677	3.6800e-003	0.4093	2.6200e-003	0.4119	0.1089	2.4100e-003	0.1113	0.0000	333.3429	333.3429	6.9600e-003	0.0000	333.5169
Total	0.1816	1.2130	1.3439	6.6900e-003	0.4832	4.8400e-003	0.4881	0.1303	4.5300e-003	0.1348	0.0000	622.7063	622.7063	0.0207	0.0000	623.2234

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	0.1692	3.6863	2.7972	4.2200e-003		0.1414	0.1414		0.1414	0.1414	0.0000	362.6496	362.6496	0.0869	0.0000	364.8216
Total	0.1692	3.6863	2.7972	4.2200e-003		0.1414	0.1414		0.1414	0.1414	0.0000	362.6496	362.6496	0.0869	0.0000	364.8216

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0334	1.1146	0.2762	3.0100e-003	0.0739	2.2200e-003	0.0761	0.0214	2.1200e-003	0.0235	0.0000	289.3633	289.3633	0.0137	0.0000	289.7066
Worker	0.1482	0.0963	1.0677	3.6800e-003	0.4093	2.6200e-003	0.4119	0.1089	2.4100e-003	0.1113	0.0000	333.3429	333.3429	6.9600e-003	0.0000	333.5169
Total	0.1816	1.2130	1.3439	6.6900e-003	0.4832	4.8400e-003	0.4881	0.1303	4.5300e-003	0.1348	0.0000	622.7063	622.7063	0.0207	0.0000	623.2234

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2454	2.2440	2.5341	4.2000e-003		0.1092	0.1092		0.1027	0.1027	0.0000	361.6154	361.6154	0.0860	0.0000	363.7660
Total	0.2454	2.2440	2.5341	4.2000e-003		0.1092	0.1092		0.1027	0.1027	0.0000	361.6154	361.6154	0.0860	0.0000	363.7660

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3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0250	0.8567	0.2465	2.9100e-003	0.0737	9.9000e-004	0.0747	0.0213	9.4000e-004	0.0223	0.0000	280.3552	280.3552	0.0117	0.0000	280.6468
Worker	0.1381	0.0881	0.9790	3.5300e-003	0.4080	2.5500e-003	0.4106	0.1086	2.3500e-003	0.1109	0.0000	319.5525	319.5525	6.2200e-003	0.0000	319.7080
Total	0.1631	0.9448	1.2255	6.4400e-003	0.4817	3.5400e-003	0.4852	0.1299	3.2900e-003	0.1332	0.0000	599.9077	599.9077	0.0179	0.0000	600.3547

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	0.1686	3.6745	2.7883	4.2000e-003		0.1410	0.1410		0.1410	0.1410	0.0000	361.6150	361.6150	0.0860	0.0000	363.7655
Total	0.1686	3.6745	2.7883	4.2000e-003		0.1410	0.1410		0.1410	0.1410	0.0000	361.6150	361.6150	0.0860	0.0000	363.7655

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3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0250	0.8567	0.2465	2.9100e-003	0.0737	9.9000e-004	0.0747	0.0213	9.4000e-004	0.0223	0.0000	280.3552	280.3552	0.0117	0.0000	280.6468
Worker	0.1381	0.0881	0.9790	3.5300e-003	0.4080	2.5500e-003	0.4106	0.1086	2.3500e-003	0.1109	0.0000	319.5525	319.5525	6.2200e-003	0.0000	319.7080
Total	0.1631	0.9448	1.2255	6.4400e-003	0.4817	3.5400e-003	0.4852	0.1299	3.2900e-003	0.1332	0.0000	599.9077	599.9077	0.0179	0.0000	600.3547

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0964	0.8806	1.0589	1.7700e-003		0.0402	0.0402		0.0378	0.0378	0.0000	151.8612	151.8612	0.0359	0.0000	152.7589
Total	0.0964	0.8806	1.0589	1.7700e-003		0.0402	0.0402		0.0378	0.0378	0.0000	151.8612	151.8612	0.0359	0.0000	152.7589

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3557	0.0996	1.2100e-003	0.0309	4.1000e-004	0.0313	8.9500e-003	3.9000e-004	9.3300e-003	0.0000	116.9188	116.9188	4.8000e-003	0.0000	117.0387
Worker	0.0545	0.0334	0.3808	1.4200e-003	0.1713	1.0500e-003	0.1724	0.0456	9.7000e-004	0.0465	0.0000	128.8610	128.8610	2.3500e-003	0.0000	128.9198
Total	0.0646	0.3891	0.4804	2.6300e-003	0.2023	1.4600e-003	0.2037	0.0545	1.3600e-003	0.0559	0.0000	245.7798	245.7798	7.1500e-003	0.0000	245.9585

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	0.0708	1.5428	1.1707	1.7700e-003		0.0592	0.0592		0.0592	0.0592	0.0000	151.8610	151.8610	0.0359	0.0000	152.7588
Total	0.0708	1.5428	1.1707	1.7700e-003		0.0592	0.0592		0.0592	0.0592	0.0000	151.8610	151.8610	0.0359	0.0000	152.7588

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3557	0.0996	1.2100e-003	0.0309	4.1000e-004	0.0313	8.9500e-003	3.9000e-004	9.3300e-003	0.0000	116.9188	116.9188	4.8000e-003	0.0000	117.0387
Worker	0.0545	0.0334	0.3808	1.4200e-003	0.1713	1.0500e-003	0.1724	0.0456	9.7000e-004	0.0465	0.0000	128.8610	128.8610	2.3500e-003	0.0000	128.9198
Total	0.0646	0.3891	0.4804	2.6300e-003	0.2023	1.4600e-003	0.2037	0.0545	1.3600e-003	0.0559	0.0000	245.7798	245.7798	7.1500e-003	0.0000	245.9585

3.7 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.7 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.8000e-004	3.1600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0699	1.0699	2.0000e-005	0.0000	1.0703
Total	4.5000e-004	2.8000e-004	3.1600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0699	1.0699	2.0000e-005	0.0000	1.0703

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	6.7700e-003	0.1448	0.1218	1.7000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.7700e-003	0.1448	0.1218	1.7000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.7 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.8000e-004	3.1600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0699	1.0699	2.0000e-005	0.0000	1.0703
Total	4.5000e-004	2.8000e-004	3.1600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0699	1.0699	2.0000e-005	0.0000	1.0703

3.8 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.5181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	2.5197	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.8 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.2000e-004	0.0104	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5305	3.5305	6.0000e-005	0.0000	3.5321
Total	1.4900e-003	9.2000e-004	0.0104	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5305	3.5305	6.0000e-005	0.0000	3.5321

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	2.5181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0300e-003	0.0212	0.0165	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	2.5191	0.0212	0.0165	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012

Menlo Portal Project - Bay Area AQMD Air District, Annual

3.8 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M1/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.2000e-004	0.0104	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5305	3.5305	6.0000e-005	0.0000	3.5321
Total	1.4900e-003	9.2000e-004	0.0104	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5305	3.5305	6.0000e-005	0.0000	3.5321

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Unbundle Parking Cost

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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	0.3319	1.4856	3.5483	0.0133	1.2114	0.0109	1.2223	0.3251	0.0102	0.3353	0.0000	1,221.6554	1,221.6554	0.0429	0.0000	1,222.7267
Unmitigated	0.3489	1.5878	3.9434	0.0152	1.4021	0.0124	1.4145	0.3763	0.0116	0.3878	0.0000	1,397.1281	1,397.1281	0.0475	0.0000	1,398.3167

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Menlo Portal Project - Bay Area AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
City Park	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
General Office Building	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
Unenclosed Parking with Elevator	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	297.5137	297.5137	0.0262	5.4300e-003	299.7876
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	314.9030	314.9030	0.0278	5.7500e-003	317.3098
NaturalGas Mitigated	0.0184	0.1569	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.8450	181.8450	3.4900e-003	3.3300e-003	182.9257
NaturalGas Unmitigated	0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	191.8728	191.8728	3.6800e-003	3.5200e-003	193.0130

Menlo Portal Project - Bay Area AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
		tons/yr										MT/yr					
Apartments Mid Rise	2.92469e+006	0.0158	0.1348	0.0574	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.0728	156.0728	2.9900e-003	2.8600e-003	157.0003
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	670867	3.6200e-003	0.0329	0.0276	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.8000	35.8000	6.9000e-004	6.6000e-004	36.0128
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	191.8728	191.8728	3.6800e-003	3.5200e-003	193.0130

Menlo Portal Project - Bay Area AQMD Air District, Annual

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 Mid Rise	2.78129e+006	0.0150	0.1282	0.0545	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.4201	148.4201	2.8400e-003	2.7200e-003	149.3021
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	626360	3.3800e-003	0.0307	0.0258	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	33.4250	33.4250	6.4000e-004	6.1000e-004	33.6236
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0184	0.1589	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.8450	181.8450	3.4800e-003	3.3300e-003	182.9256

Menlo Portal Project - Bay Area AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.41437e+006	210.9403	0.0186	3.8500e-003	212.5525
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	433131	64.5977	5.7000e-003	1.1800e-003	65.0914
Unenclosed Parking with Elevator	263945	39.3650	3.4700e-003	7.2000e-004	39.6659
Total		314.9030	0.0278	5.7500e-003	317.3098

Menlo Portal Project - Bay Area AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	M1/yr			
Apartments Mid Rise	1.34397e+006	200.4406	0.0177	3.6600e-003	201.9725
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	410746	61.2591	5.4000e-003	1.1200e-003	61.7273
Unenclosed Parking with Elevator	240135	35.8141	3.1600e-003	6.5000e-004	36.0878
Total		297.5137	0.0262	5.4300e-003	299.7876

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Menlo Portal Project - Bay Area AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7527	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692
Unmitigated	1.7790	0.0326	2.7297	9.1000e-004		0.0528	0.0528		0.0528	0.0528	5.2249	4.0712	9.2961	0.0284	0.0000	10.0048

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	0.2518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0263	3.9000e-003	0.2392	7.8000e-004		0.0390	0.0390		0.0390	0.0390	5.2249	0.0000	5.2249	0.0244	0.0000	5.8355
Landscaping	0.0751	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692
Total	1.7790	0.0326	2.7297	9.1000e-004		0.0528	0.0528		0.0528	0.0528	5.2249	4.0712	9.2961	0.0284	0.0000	10.0048

Menlo Portal Project - Bay Area AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										M1/yr						
Architectural Coating	0.2518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0751	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692	
Total	1.7527	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692	

7.0 Water Detail

7.1 Mitigation Measures Water

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

Menlo Portal Project - Bay Area AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	35.0699	0.7323	0.0177	58.6636
Unmitigated	41.3648	0.9151	0.0221	70.8380

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.8266 / 13.7602	31.7215	0.7134	0.0173	54.6959
City Park	0 / 1.40595	0.7339	6.0000e-005	1.0000e-005	0.7395
General Office Building	6.16914 / 3.78108	8.9094	0.2016	4.8700e-003	15.4025
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		41.3648	0.9151	0.0221	70.8380

Menlo Portal Project - Bay Area AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	M1/yr			
Apartments Mid Rise	17.4613 / 13.7602	26.8137	0.5709	0.0138	45.2043
City Park	0 / 1.40595	0.7339	6.0000e-005	1.0000e-005	0.7395
General Office Building	4.93531 / 3.78108	7.5223	0.1613	3.9100e-003	12.7198
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		35.0699	0.7323	0.0177	58.6636

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Menlo Portal Project - Bay Area AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4634	0.5933	0.0000	23.4453
Unmitigated	37.8538	2.2371	0.0000	93.7811

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	154.1	31.2809	1.8487	0.0000	77.4971
City Park	0.1	0.0203	1.2000e-003	0.0000	0.0503
General Office Building	32.28	6.5526	0.3872	0.0000	16.2337
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		37.8538	2.2371	0.0000	93.7811

Menlo Portal Project - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	M t/yr			
Apartments Mid Rise	38.525	7.8202	0.4622	0.0000	19.3743
City Park	0.025	5.0700e-003	3.0000e-004	0.0000	0.0126
General Office Building	8.07	1.6381	0.0968	0.0000	4.0584
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		9.4634	0.5593	0.0000	23.4453

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
Emergency Generator	1	0.14	50	335	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Menlo Portal Project - Bay Area AQMD Air District, Annual

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Total	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007

11.0 Vegetation

Menlo Portal Project - Bay Area AQMD Air District, Summer

Menlo Portal Project
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	34.71	1000sqft	0.02	34,706.00	0
Unenclosed Parking with Elevator	417.00	Space	1.00	136,054.00	0
City Park	1.18	Acre	1.18	61,310.00	0
Apartments Mid Rise	335.00	Dwelling Unit	1.00	327,970.00	958

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	328.8	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Menlo Portal Project - Bay Area AQMD Air District, Summer

Project Characteristics - CO2 intensity based on 5-year average (PG&E, 2015)

Land Use - The proposed project would develop the project site with a 327,970-gross-square-foot (gsf), multi-family apartment building with approximately 335 dwelling units, an approximately 34,706 gsf commercial office building, as well as associated open space, circulation and parking, and infrastructure improvements.

Construction Phase - Construction is expected to begin May 2021 and end summer 2024. Phasing based on assumptions provided by Project Applicant. Architectural Coating and Paving phases are default duration.

Grading - A total of 5,000 cubic yards of soils would be imported.

Demolition - Approximately 64,832 building square footage to be demolished.

Trips and VMT - For soil import haul trips, assuming 16 cubic yards of material per load consistent with CalEEMod defaults.

Vehicle Trips - Based on trip generation prepared for the project.

Woodstoves - Assuming no hearth as the proposed project would not increase the demand for natural gas as the City's REACH codes would require the buildings to be all electric.

Stationary Sources - Emergency Generators and Fire Pumps - Assuming the emergency generators would run 50 hours per year for testing and emergency use.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting, on-site renewable energy generating 10 percent of electricity use, and energy-efficient appliances.

Water Mitigation - Assuming low-flow appliances.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Menlo Portal Project - Bay Area AQMD Air District, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
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tblConstEquipMitigation	Tier	No Change	Tier 2
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tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	230.00	887.00
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	8.00	38.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	5.00	26.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

Menlo Portal Project - Bay Area AQMD Air District, Summer

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	50.25	0.00
tblFireplaces	NumberNoFireplace	13.40	335.00
tblFireplaces	NumberWood	56.95	0.00
tblGrading	AcresOfGrading	19.00	3.20
tblGrading	AcresOfGrading	20.00	3.20
tblGrading	MaterialImported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	34,710.00	34,706.00
tblLandUse	LandUseSquareFeet	166,800.00	136,054.00
tblLandUse	LandUseSquareFeet	51,400.80	51,319.00
tblLandUse	LandUseSquareFeet	335,000.00	327,970.00
tblLandUse	LotAcreage	0.80	0.02
tblLandUse	LotAcreage	3.75	1.00
tblLandUse	LotAcreage	8.82	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	335.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.14
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	6.39	4.87
tblVehicleTrips	ST_TR	22.75	0.00

Menlo Portal Project - Bay Area AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.7575	0.8714	61.5531	0.1120		5.6803	5.6803		5.6803	5.6803	815.7890	49.8641	865.6531	3.8617	0.0000	962.1945
Energy	0.1062	0.9186	0.4656	5.7900e-003		0.0734	0.0734		0.0734	0.0734		1,158.9238	1,158.9238	0.0222	0.0213	1,165.8107
Mobile	2.2073	8.4731	22.5882	0.0883	8.0037	0.0680	8.0717	2.1410	0.0634	2.2044		8,945.5585	8,945.5585	0.2895		8,952.7949
Stationary	0.0770	0.2151	0.1963	3.7000e-004		0.0113	0.0113		0.0113	0.0113		39.3732	39.3732	5.5200e-003		39.5112
Total	16.1480	10.4783	84.8032	0.2065	8.0037	5.8330	13.8367	2.1410	5.8284	7.9694	815.7890	10,193.7197	11,009.5086	4.1789	0.0213	11,120.3113

Menlo Portal Project - Bay Area AQMD Air District, Summer

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	lb/day										lb/day					
Area	10.0268	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	49.8641	49.8641	0.0480	0.0000	51.0643
Energy	0.1007	0.8705	0.4401	5.4900e-003		0.0696	0.0696		0.0696	0.0696		1,098.3553	1,098.3553	0.0211	0.0201	1,104.8823
Mobile	2.1121	7.9464	20.1403	0.0772	6.9152	0.0599	6.9751	1.8498	0.0559	1.9057		7,820.5594	7,820.5594	0.2599		7,827.0556
Stationary	0.0770	0.2151	0.1963	3.7000e-004		0.0113	0.0113		0.0113	0.0113		39.3732	39.3732	5.5200e-003		39.5112
Total	12.3165	9.3507	48.4492	0.0845	6.9152	0.2941	7.2093	1.8498	0.2900	2.1399	0.0000	9,008.1521	9,008.1521	0.3344	0.0201	9,022.5134

	ROG	NOx	CO	SO2	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	23.73	10.76	42.87	59.07	13.60	94.96	47.90	13.60	95.02	73.15	100.00	11.63	18.18	92.00	5.22	18.86

3.0 Construction Detail

Construction Phase

Menlo Portal Project - Bay Area AQMD Air District, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/3/2021	7/2/2021	6	53	
2	Site Preparation	Site Preparation	7/5/2021	8/3/2021	6	26	
3	Rough Grading	Grading	7/5/2021	8/17/2021	6	38	
4	Fine Grading	Grading	8/2/2021	9/16/2021	6	40	
5	Building Construction	Building Construction	8/2/2021	5/31/2024	6	887	
6	Paving	Paving	6/3/2024	6/22/2024	6	18	
7	Architectural Coating	Architectural Coating	6/3/2024	6/22/2024	6	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 664,139; Residential Outdoor: 221,380; Non-Residential Indoor: 52,059; Non-Residential Outdoor: 17,353; Striped Parking Area: 8,163 (Architectural Coating – sqft)

OffRoad Equipment

Menlo Portal Project - Bay Area AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Fine Grading	Excavators	1	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Menlo Portal Project - Bay Area AQMD Air District, Summer

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
Demolition	6	15.00	0.00	295.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	0.00	625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	331.00	72.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	66.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2041	0.0000	1.2041	0.1823	0.0000	0.1823			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	1.2041	1.5513	2.7555	0.1823	1.4411	1.6234		3,747.9449	3,747.9449	1.0549		3,774.3174

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0434	1.4728	0.3105	4.3700e-003	0.0972	4.6200e-003	0.1019	0.0267	4.4200e-003	0.0311		467.4969	467.4969	0.0232		468.0769
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0262	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	0.0916	1.5010	0.6789	5.5600e-003	0.2205	5.4000e-003	0.2259	0.0593	5.1300e-003	0.0645		586.2909	586.2909	0.0259		586.9372

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5419	0.0000	0.5419	0.0820	0.0000	0.0820			0.0000			0.0000
Off-Road	1.2617	32.6638	24.6739	0.0388		0.9135	0.9135		0.9135	0.9135	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	1.2617	32.6638	24.6739	0.0388	0.5419	0.9135	1.4554	0.0820	0.9135	0.9956	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0434	1.4728	0.3105	4.3700e-003	0.0972	4.6200e-003	0.1019	0.0267	4.4200e-003	0.0311		467.4969	467.4969	0.0232		468.0769
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0262	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	0.0916	1.5010	0.6789	5.5600e-003	0.2205	5.4000e-003	0.2259	0.0593	5.1300e-003	0.0645		586.2909	586.2909	0.0259		586.9372

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.656 g	3,685.656 g	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 g	3,685.656 g	1.1920		3,715.4573

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
Total	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462		3,685.656 g	3,685.656 g	1.1920		3,715.4573
Total	1.2097	33.7214	22.9600	0.0380	8.1298	0.9462	9.0760	4.4688	0.9462	5.4150	0.0000	3,685.656 g	3,685.656 g	1.1920		3,715.4573

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
Total	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324

3.4 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1263	0.0000	6.1263	3.3221	0.0000	3.3221			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.1263	1.1599	7.2862	3.3221	1.0671	4.3892		2,871.9285	2,871.9285	0.9288		2,895.1495

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.4 Rough Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1261	4.3520	0.9174	0.0129	0.2874	0.0136	0.3010	0.0788	0.0131	0.0918		1,381.4305	1,381.4305	0.0686		1,383.1442
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0262	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	0.1763	4.3802	1.2859	0.0141	0.4106	0.0144	0.4250	0.1114	0.0138	0.1252		1,500.2244	1,500.2244	0.0712		1,502.0045

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7568	0.0000	2.7568	1.4950	0.0000	1.4950			0.0000			0.0000
Off-Road	1.0093	26.2791	18.9906	0.0296		0.7725	0.7725		0.7725	0.7725		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	1.0093	26.2791	18.9906	0.0296	2.7568	0.7725	3.5293	1.4950	0.7725	2.2674	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.4 Rough Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1281	4.3520	0.9174	0.0129	0.2874	0.0136	0.3010	0.0788	0.0131	0.0918		1,381.4305	1,381.4305	0.0686		1,383.1442
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	0.1763	4.3802	1.2859	0.0141	0.4106	0.0144	0.4250	0.1114	0.0138	0.1252		1,500.2244	1,500.2244	0.0712		1,502.0045

3.5 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1069	0.0000	6.1069	3.3194	0.0000	3.3194			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.1069	1.1599	7.2668	3.3194	1.0671	4.3865		2,871.9285	2,871.9285	0.9288		2,895.1495

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.5 Fine Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7481	0.0000	2.7481	1.4937	0.0000	1.4937			0.0000			0.0000
Off-Road	1.0093	26.2791	18.9906	0.0296		0.7725	0.7725		0.7725	0.7725		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	1.0093	26.2791	18.9906	0.0296	2.7481	0.7725	3.5206	1.4937	0.7725	2.2662	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.5 Fine Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603

3.6 Building Construction - 2021

Unmitigated Construction On-Site

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

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2233	7.4406	1.7546	0.0196	0.4874	0.0161	0.5035	0.1403	0.0154	0.1557		2,080.5015	2,080.5015	0.0977		2,082.9427
Worker	1.0643	0.6220	8.1304	0.0263	2.7191	0.0171	2.7362	0.7212	0.0158	0.7370		2,621.3860	2,621.3860	0.0586		2,622.8510
Total	1.2876	8.0626	9.8850	0.0459	3.2065	0.0332	3.2397	0.8615	0.0312	0.8927		4,701.8875	4,701.8875	0.1563		4,705.7936

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2233	7.4406	1.7546	0.0196	0.4874	0.0161	0.5035	0.1403	0.0154	0.1557		2,080.5015	2,080.5015	0.0977			2,082.9427
Worker	1.0643	0.6220	8.1304	0.0263	2.7191	0.0171	2.7362	0.7212	0.0158	0.7370		2,621.3860	2,621.3860	0.0586			2,622.8510
Total	1.2876	8.0626	9.8850	0.0459	3.2065	0.0332	3.2397	0.8615	0.0312	0.8927		4,701.8875	4,701.8875	0.1563			4,705.7936

3.6 Building Construction - 2022

Unmitigated Construction On-Site

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

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2063	7.0517	1.6501	0.0194	0.4874	0.0140	0.5014	0.1403	0.0134	0.1537		2,060.2404	2,060.2404	0.0934			2,062.5745
Worker	0.9906	0.5579	7.4917	0.0253	2.7191	0.0167	2.7358	0.7212	0.0154	0.7366		2,525.1837	2,525.1837	0.0526			2,526.4992
Total	1.1989	7.6096	9.1418	0.0448	3.2065	0.0307	3.2372	0.8615	0.0288	0.8903		4,585.4241	4,585.4241	0.1460			4,589.0737

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120			2,569.6322
Total	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120			2,569.6322

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2083	7.0517	1.6501	0.0194	0.4874	0.0140	0.5014	0.1403	0.0134	0.1537		2,060.2404	2,060.2404	0.0934			2,062.5745
Worker	0.9906	0.5579	7.4917	0.0253	2.7191	0.0167	2.7358	0.7212	0.0154	0.7366		2,525.1837	2,525.1837	0.0526			2,526.4992
Total	1.1989	7.6096	9.1418	0.0448	3.2065	0.0307	3.2372	0.8615	0.0288	0.8903		4,585.4241	4,585.4241	0.1460			4,589.0737

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079			2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079			2,570.4061

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1561	5.4495	1.4855	0.0189	0.4874	6.2000e-003	0.4936	0.1403	5.9300e-003	0.1462		2,002.2834	2,002.2834	0.0798			2,004.2783
Worker	0.9248	0.5018	6.9095	0.0244	2.7191	0.0164	2.7355	0.7212	0.0151	0.7363		2,428.3774	2,428.3774	0.0473			2,429.5587
Total	1.0808	5.9512	8.3950	0.0432	3.2065	0.0226	3.2291	0.8615	0.0210	0.8825		4,430.6608	4,430.6608	0.1271			4,433.8369

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079			2,570.4061
Total	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079			2,570.4061

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1561	5.4495	1.4855	0.0189	0.4874	6.2000e-003	0.4936	0.1403	5.9300e-003	0.1462		2,002.2834	2,002.2834	0.0798		2,004.2783
Worker	0.9248	0.5018	6.9095	0.0244	2.7191	0.0164	2.7355	0.7212	0.0151	0.7363		2,428.3774	2,428.3774	0.0473		2,429.5587
Total	1.0808	5.9512	8.3950	0.0432	3.2065	0.0226	3.2291	0.8615	0.0210	0.8825		4,430.6608	4,430.6608	0.1271		4,433.8369

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1510	5.3891	1.4312	0.0187	0.4874	6.1000e-003	0.4935	0.1403	5.8300e-003	0.1461		1,988.6060	1,988.6060	0.0782		1,990.5619
Worker	0.8676	0.4533	6.4134	0.0234	2.7191	0.0161	2.7351	0.7212	0.0148	0.7360		2,332.1729	2,332.1729	0.0426		2,333.2381
Total	1.0186	5.8424	7.8446	0.0421	3.2065	0.0222	3.2287	0.8615	0.0206	0.8822		4,320.7789	4,320.7789	0.1209		4,323.7999

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1510	5.3891	1.4312	0.0187	0.4874	6.1000e-003	0.4935	0.1403	5.8300e-003	0.1461		1,988.6060	1,988.6060	0.0782			1,990.5619
Worker	0.8676	0.4533	6.4134	0.0234	2.7191	0.0161	2.7351	0.7212	0.0148	0.7360		2,332.1729	2,332.1729	0.0426			2,333.2381
Total	1.0186	5.8424	7.8446	0.0421	3.2065	0.0222	3.2287	0.8615	0.0206	0.8822		4,320.7789	4,320.7789	0.1209			4,323.7999

3.7 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673			1,819.8039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673			1,819.8039

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.7 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0524	0.0274	0.3875	1.4100e-003	0.1643	9.7000e-004	0.1653	0.0436	8.9000e-004	0.0445		140.9168	140.9168	2.5700e-003			140.9812
Total	0.0524	0.0274	0.3875	1.4100e-003	0.1643	9.7000e-004	0.1653	0.0436	8.9000e-004	0.0445		140.9168	140.9168	2.5700e-003			140.9812

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	0.7524	16.0849	13.5323	0.0189		0.5601	0.5601		0.5601	0.5601	0.0000	1,805.6205	1,805.6205	0.5673			1,819.8039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.7524	16.0849	13.5323	0.0189		0.5601	0.5601		0.5601	0.5601	0.0000	1,805.6205	1,805.6205	0.5673			1,819.8039

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.7 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0524	0.0274	0.3875	1.4100e-003	0.1643	9.7000e-004	0.1653	0.0436	8.9000e-004	0.0445		140.9168	140.9168	2.5700e-003		140.9812
Total	0.0524	0.0274	0.3875	1.4100e-003	0.1643	9.7000e-004	0.1653	0.0436	8.9000e-004	0.0445		140.9168	140.9168	2.5700e-003		140.9812

3.8 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	279.7846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	279.9653	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.8 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1730	0.0904	1.2788	4.6600e-003	0.5422	3.2000e-003	0.5454	0.1438	2.9500e-003	0.1468		465.0254	465.0254	8.5000e-003		465.2378
Total	0.1730	0.0904	1.2788	4.6600e-003	0.5422	3.2000e-003	0.5454	0.1438	2.9500e-003	0.1468		465.0254	465.0254	8.5000e-003		465.2378

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	279.7846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443
Total	279.8985	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443

Menlo Portal Project - Bay Area AQMD Air District, Summer

3.8 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1730	0.0904	1.2788	4.6600e-003	0.5422	3.2000e-003	0.5454	0.1438	2.9500e-003	0.1468		465.0254	465.0254	8.5000e-003		465.2378
Total	0.1730	0.0904	1.2788	4.6600e-003	0.5422	3.2000e-003	0.5454	0.1438	2.9500e-003	0.1468		465.0254	465.0254	8.5000e-003		465.2378

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Unbundle Parking Cost

Menlo Portal Project - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1121	7.9464	20.1403	0.0772	6.9152	0.0599	6.9751	1.8498	0.0559	1.9057		7,820.5594	7,820.5594	0.2599		7,827.0556
Unmitigated	2.2073	8.4731	22.5882	0.0883	8.0037	0.0680	8.0717	2.1410	0.0634	2.2044		8,945.5585	8,945.5585	0.2895		8,952.7949

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Menlo Portal Project - Bay Area AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
City Park	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
General Office Building	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
Unenclosed Parking with Elevator	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

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	0.1007	0.8705	0.4401	5.4900e-003		0.0696	0.0696		0.0696	0.0696		1,098.3553	1,098.3553	0.0211	0.0201	1,104.8823
NaturalGas Unmitigated	0.1062	0.9186	0.4656	5.7900e-003		0.0734	0.0734		0.0734	0.0734		1,158.9238	1,158.9238	0.0222	0.0213	1,165.8107

Menlo Portal Project - Bay Area AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBTU/yr	ROG	NOx	CO	SO2	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					
Apartments Mid Rise	8012.86	0.0864	0.7384	0.3142	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.6895	942.6895	0.0181	0.0173	948.2914
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1837.99	0.0198	0.1802	0.1514	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.2343	216.2343	4.1400e-003	3.9600e-003	217.5193
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1062	0.9186	0.4656	5.7900e-003		0.0734	0.0734		0.0734	0.0734		1,158.9238	1,158.9238	0.0222	0.0212	1,165.8107

Menlo Portal Project - Bay Area AQMD Air District, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBtu/yr	lb/day										lb/day					
Apartments Mid Rise	7.61996	0.0822	0.7022	0.2988	4.4800e-003		0.0568	0.0568		0.0568	0.0568		896.4665	896.4665	0.0172	0.0164	901.7937
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.71605	0.0185	0.1682	0.1413	1.0100e-003		0.0128	0.0128		0.0128	0.0128		201.8888	201.8888	3.8700e-003	3.7000e-003	203.0885
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1007	0.8705	0.4401	5.4900e-003		0.0696	0.0696		0.0696	0.0696		1,098.3553	1,098.3553	0.0211	0.0201	1,104.8823

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Menlo Portal Project - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.0268	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	49.8641	49.8641	0.0480	0.0000	51.0643
Unmitigated	13.7575	0.8714	61.5531	0.1120		5.6803	5.6803		5.6803	5.6803	815.7890	49.8641	865.6531	3.8617	0.0000	962.1945

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.8121					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.7307	0.5527	33.8807	0.1105		5.5270	5.5270		5.5270	5.5270	815.7890	0.0000	815.7890	3.8137	0.0000	911.1302
Landscaping	0.8349	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533		49.8641	49.8641	0.0480		51.0643
Total	13.7575	0.8714	61.5531	0.1120		5.6803	5.6803		5.6803	5.6803	815.7890	49.8641	865.6531	3.8617	0.0000	962.1945

Menlo Portal Project - Bay Area AQMD Air District, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Subcategory	lb/day										lb/day					
Architectural Coating	1.3798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.8121					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8349	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533		49.8641	49.8641	0.0480		51.0643
Total	10.0268	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	49.8641	49.8641	0.0480	0.0000	51.0643

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

Menlo Portal Project - Bay Area AQMD Air District, Summer

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
Emergency Generator	1	0.14	50	335	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	0.0770	0.2151	0.1963	3.7000e-004		0.0113	0.0113		0.0113	0.0113		39.3732	39.3732	5.5200e-003		39.5112
Total	0.0770	0.2151	0.1963	3.7000e-004		0.0113	0.0113		0.0113	0.0113		39.3732	39.3732	5.5200e-003		39.5112

11.0 Vegetation

Menlo Portal Project
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	34.71	1000sqft	0.02	34,706.00	0
Unenclosed Parking with Elevator	417.00	Space	1.00	136,054.00	0
City Park	1.18	Acre	1.18	51,319.00	0
Apartments Mid Rise	335.00	Dwelling Unit	1.00	327,970.00	958

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	328.8	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Menlo Portal Project - Bay Area AQMD Air District, Winter

Project Characteristics - CO2 intensity based on 5-year average (PG&E, 2015)

Land Use - The proposed project would develop the project site with a 327,970-gross-square-foot (gsf), multi-family apartment building with approximately 335 dwelling units, an approximately 34,706 gsf commercial office building, as well as associated open space, circulation and parking, and infrastructure improvements.

Construction Phase - Construction is expected to begin May 2021 and end summer 2024. Phasing based on assumptions provided by Project Applicant. Architectural Coating and Paving phases are default duration.

Grading - A total of 5,000 cubic yards of soils would be imported.

Demolition - Approximately 64,832 building square footage to be demolished.

Trips and VMT - For soil import haul trips, assuming 16 cubic yards of material per load consistent with CalEEMod defaults.

Vehicle Trips - Based on trip generation prepared for the project.

Woodstoves - Assuming no hearth as the proposed project would not increase the demand for natural gas as the City's REACH codes would require the buildings to be all electric.

Stationary Sources - Emergency Generators and Fire Pumps - Assuming the emergency generators would run 50 hours per year for testing and emergency use.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting, on-site renewable energy generating 10 percent of electricity use, and energy-efficient appliances.

Water Mitigation - Assuming low-flow appliances.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Menlo Portal Project - Bay Area AQMD Air District, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
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tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	230.00	887.00
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	8.00	38.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	5.00	26.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

Menlo Portal Project - Bay Area AQMD Air District, Winter

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	50.25	0.00
tblFireplaces	NumberNoFireplace	13.40	335.00
tblFireplaces	NumberWood	56.95	0.00
tblGrading	AcresOfGrading	19.00	3.20
tblGrading	AcresOfGrading	20.00	3.20
tblGrading	MaterialImported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	34,710.00	34,706.00
tblLandUse	LandUseSquareFeet	166,800.00	136,054.00
tblLandUse	LandUseSquareFeet	51,400.80	51,319.00
tblLandUse	LandUseSquareFeet	335,000.00	327,970.00
tblLandUse	LotAcreage	0.80	0.02
tblLandUse	LotAcreage	3.75	1.00
tblLandUse	LotAcreage	8.82	1.00
tblProjectCharacteristics	CO2IntensityFactor	64.135	328.6
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	335.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.14
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	6.39	4.87
tblVehicleTrips	ST_TR	22.75	0.00

Menlo Portal Project - Bay Area AQMD Air District, Winter

tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	5.86	4.87
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	6.65	4.87
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	ROG	NOx	CO	SO2	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					
2021	12.0288	120.2405	81.1558	0.1838	34.1876	5.3731	39.5607	17.6171	4.9637	22.5808	0.0000	18,133.6137	18,133.6137	3.9058	0.0000	18,231.2586
2022	2.9791	23.4094	25.2395	0.0692	3.2065	0.8402	4.0467	0.8615	0.7904	1.6519	0.0000	6,888.2153	6,888.2153	0.7618	0.0000	6,907.2598
2023	2.7243	20.4802	24.3383	0.0678	3.2065	0.7226	3.9291	0.8615	0.6797	1.5412	0.0000	6,744.0421	6,744.0421	0.7373	0.0000	6,762.4744
2024	281.0879	19.4180	23.7185	0.0668	3.2065	0.6357	3.8422	0.8615	0.5978	1.4593	0.0000	6,643.0488	6,643.0488	0.7276	0.0000	6,661.2388
Maximum	281.0879	120.2405	81.1558	0.1838	34.1876	5.3731	39.5607	17.6171	4.9637	22.5808	0.0000	18,133.6137	18,133.6137	3.9058	0.0000	18,231.2586

Menlo Portal Project - Bay Area AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2021	5.9683	122.6720	90.5264	0.1838	17.5229	3.4448	20.9677	8.5024	3.4420	11.9443	0.0000	18,133.6137	18,133.6137	3.9058	0.0000	18,231.2586
2022	2.3538	31.3481	26.7499	0.0692	3.2065	0.9347	4.1412	0.8615	0.9328	1.7943	0.0000	6,888.2153	6,888.2153	0.7618	0.0000	6,907.2598
2023	2.2324	29.6497	25.9681	0.0678	3.2065	0.9264	4.1329	0.8615	0.9248	1.7864	0.0000	6,744.0421	6,744.0421	0.7373	0.0000	6,762.4744
2024	280.8921	29.5286	25.4255	0.0668	3.2065	0.9260	4.1325	0.8615	0.9244	1.7859	0.0000	6,643.0488	6,643.0488	0.7276	0.0000	6,661.2388
Maximum	280.8921	122.6720	90.5264	0.1838	17.5229	3.4448	20.9677	8.5024	3.4420	11.9443	0.0000	18,133.6137	18,133.6137	3.9058	0.0000	18,231.2586
Percent Reduction	2.47	-16.15	-9.21	0.00	38.04	17.69	35.04	45.12	11.48	36.43	0.00	0.00	0.00	0.00	0.00	0.00

Menlo Portal Project - Bay Area AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.7575	0.8714	61.5531	0.1120		5.6803	5.6803		5.6803	5.6803	815.7890	49.8641	865.6531	3.8617	0.0000	962.1945
Energy	0.1062	0.9186	0.4656	5.7900e-003		0.0734	0.0734		0.0734	0.0734		1,158.9238	1,158.9238	0.0222	0.0213	1,165.8107
Mobile	1.8959	8.8799	22.6496	0.0827	8.0037	0.0683	8.0720	2.1410	0.0637	2.2047		8,381.8372	8,381.8372	0.2951		8,389.2142
Stationary	0.0770	0.2151	0.1963	3.7000e-004		0.0113	0.0113		0.0113	0.0113		39.3732	39.3732	5.5200e-003		39.5112
Total	15.8366	10.8851	84.8646	0.2009	8.0037	5.8333	13.8370	2.1410	5.8287	7.9697	815.7890	9,629.9983	10,445.7873	4.1845	0.0213	10,556.7306

Menlo Portal Project - Bay Area AQMD Air District, Winter

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	lb/day										lb/day					
Area	10.0268	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	49.8641	49.8641	0.0480	0.0000	51.0643
Energy	0.1007	0.8705	0.4401	5.4900e-003		0.0696	0.0696		0.0696	0.0696		1,098.3553	1,098.3553	0.0211	0.0201	1,104.8823
Mobile	1.8019	8.2941	20.4700	0.0723	6.9152	0.0602	6.9754	1.8498	0.0562	1.9060		7,325.3007	7,325.3007	0.2667		7,331.9672
Stationary	0.0770	0.2151	0.1963	3.7000e-004		0.0113	0.0113		0.0113	0.0113		39.3732	39.3732	5.5200e-003		39.5112
Total	12.0063	9.6984	48.7788	0.0796	6.9152	0.2944	7.2096	1.8498	0.2903	2.1402	0.0000	8,512.8933	8,512.8933	0.3412	0.0201	8,527.4250

	ROG	NOx	CO	SO2	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	24.19	10.90	42.52	60.38	13.60	94.95	47.90	13.60	95.02	73.15	100.00	11.60	18.50	91.85	5.22	19.22

3.0 Construction Detail

Construction Phase

Menlo Portal Project - Bay Area AQMD Air District, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/3/2021	7/2/2021	6	53	
2	Site Preparation	Site Preparation	7/5/2021	8/3/2021	6	26	
3	Rough Grading	Grading	7/5/2021	8/17/2021	6	38	
4	Fine Grading	Grading	8/2/2021	9/16/2021	6	40	
5	Building Construction	Building Construction	8/2/2021	5/31/2024	6	887	
6	Paving	Paving	6/3/2024	6/22/2024	6	18	
7	Architectural Coating	Architectural Coating	6/3/2024	6/22/2024	6	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 664,139; Residential Outdoor: 221,380; Non-Residential Indoor: 52,059; Non-Residential Outdoor: 17,353; Striped Parking Area: 8,163 (Architectural Coating – sqft)

OffRoad Equipment

Menlo Portal Project - Bay Area AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Fine Grading	Excavators	1	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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	6.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Menlo Portal Project - Bay Area AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	295.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	0.00	625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	331.00	72.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	66.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2041	0.0000	1.2041	0.1823	0.0000	0.1823			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	1.2041	1.5513	2.7555	0.1823	1.4411	1.6234		3,747.9449	3,747.9449	1.0549		3,774.3174

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0445	1.5072	0.3333	4.2900e-003	0.0972	4.7000e-003	0.1019	0.0267	4.5000e-003	0.0312		459.5936	459.5936	0.0243		460.2018
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	0.0956	1.5420	0.6780	5.3900e-003	0.2205	5.4800e-003	0.2259	0.0593	5.2100e-003	0.0646		569.0241	569.0241	0.0268		569.6942

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5419	0.0000	0.5419	0.0820	0.0000	0.0820			0.0000			0.0000
Off-Road	1.2617	32.6638	24.6739	0.0388		0.9135	0.9135		0.9135	0.9135	0.0000	3,747.944 g	3,747.944 g	1.0549		3,774.3174
Total	1.2617	32.6638	24.6739	0.0388	0.5419	0.9135	1.4554	0.0820	0.9135	0.9956	0.0000	3,747.944 g	3,747.944 g	1.0549		3,774.3174

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0445	1.5072	0.3333	4.2900e-003	0.0972	4.7000e-003	0.1019	0.0267	4.5000e-003	0.0312		459.5936	459.5936	0.0243		460.2018
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	0.0956	1.5420	0.6780	5.3900e-003	0.2205	5.4800e-003	0.2259	0.0593	5.2100e-003	0.0646		569.0241	569.0241	0.0268		569.6942

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.656 g	3,685.656 g	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 g	3,685.656 g	1.1920		3,715.4573

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
Total	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	1.2097	33.7214	22.9600	0.0380	8.1298	0.9462	9.0760	4.4688	0.9462	5.4150	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
Total	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909

3.4 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1263	0.0000	6.1263	3.3221	0.0000	3.3221			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.1263	1.1599	7.2862	3.3221	1.0671	4.3892		2,871.9285	2,871.9285	0.9288		2,895.1495

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.4 Rough Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1316	4.4537	0.9849	0.0127	0.2874	0.0139	0.3012	0.0788	0.0133	0.0920		1,358,076.6	1,358,076.6	0.0719		1,359,873.6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	0.1827	4.4886	1.3296	0.0138	0.4106	0.0147	0.4252	0.1114	0.0140	0.1254		1,467,507.1	1,467,507.1	0.0744		1,469,366.0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7568	0.0000	2.7568	1.4950	0.0000	1.4950			0.0000			0.0000
Off-Road	1.0093	26.2791	18.9906	0.0296		0.7725	0.7725		0.7725	0.7725	0.0000	2,871,928.5	2,871,928.5	0.9288		2,895,149.5
Total	1.0093	26.2791	18.9906	0.0296	2.7568	0.7725	3.5293	1.4950	0.7725	2.2674	0.0000	2,871,928.5	2,871,928.5	0.9288		2,895,149.5

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.4 Rough Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1316	4.4537	0.9849	0.0127	0.2874	0.0139	0.3012	0.0788	0.0133	0.0920		1,358,076.6	1,358,076.6	0.0719		1,359,873.6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	0.1827	4.4886	1.3296	0.0138	0.4106	0.0147	0.4252	0.1114	0.0140	0.1254		1,467,507.1	1,467,507.1	0.0744		1,469,366.0

3.5 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1069	0.0000	6.1069	3.3194	0.0000	3.3194			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871,928.5	2,871,928.5	0.9288		2,895,149.5
Total	2.2903	24.7367	15.8575	0.0296	6.1069	1.1599	7.2668	3.3194	1.0671	4.3865		2,871,928.5	2,871,928.5	0.9288		2,895,149.5

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.5 Fine Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7481	0.0000	2.7481	1.4937	0.0000	1.4937			0.0000			0.0000
Off-Road	1.0093	26.2791	18.9906	0.0296		0.7725	0.7725		0.7725	0.7725	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	1.0093	26.2791	18.9906	0.0296	2.7481	0.7725	3.5206	1.4937	0.7725	2.2662	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.5 Fine Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924

3.6 Building Construction - 2021

Unmitigated Construction On-Site

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

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2365	7.5046	2.0167	0.0191	0.4874	0.0167	0.5041	0.1403	0.0160	0.1563		2,027.715 9	2,027.715 9	0.1056		2,030.356 5
Worker	1.1275	0.7663	7.6068	0.0242	2.7191	0.0171	2.7362	0.7212	0.0158	0.7370		2,414.766 3	2,414.766 3	0.0546		2,416.132 3
Total	1.3640	8.2728	9.6234	0.0434	3.2065	0.0338	3.2403	0.8615	0.0317	0.8932		4,442.481 7	4,442.481 7	0.1603		4,446.488 8

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2365	7.5046	2.0167	0.0191	0.4874	0.0167	0.5041	0.1403	0.0160	0.1563		2,027.715 5	2,027.715 5	0.1056		2,030.356 5
Worker	1.1275	0.7663	7.6068	0.0242	2.7191	0.0171	2.7362	0.7212	0.0158	0.7370		2,414.766 3	2,414.766 3	0.0546		2,416.132 3
Total	1.3640	8.2728	9.6234	0.0434	3.2065	0.0338	3.2403	0.8615	0.0317	0.8932		4,442.481 7	4,442.481 7	0.1603		4,446.488 8

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2206	7.1049	1.8958	0.0189	0.4874	0.0145	0.5019	0.1403	0.0139	0.1542		2,007,640	2,007,640	0.1009		2,010,163
Worker	1.0523	0.6869	6.9804	0.0233	2.7191	0.0167	2.7358	0.7212	0.0154	0.7366		2,326,241	2,326,241	0.0489		2,327,464
Total	1.2729	7.7937	8.8761	0.0423	3.2065	0.0312	3.2377	0.8615	0.0292	0.8908		4,333,881	4,333,881	0.1498		4,337,627

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554,333	2,554,333	0.6120		2,569,632
Total	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554,333	2,554,333	0.6120		2,569,632

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2206	7.1049	1.8958	0.0189	0.4874	0.0145	0.5019	0.1403	0.0139	0.1542		2,007,640	2,007,640	0.1009		2,010,163
Worker	1.0523	0.6869	6.9804	0.0233	2.7191	0.0167	2.7358	0.7212	0.0154	0.7366		2,326,241	2,326,241	0.0489		2,327,464
Total	1.2729	7.7937	8.8761	0.0423	3.2065	0.0312	3.2377	0.8615	0.0292	0.8908		4,333,881	4,333,881	0.1498		4,337,627

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555,209	2,555,209	0.6079		2,570,406
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555,209	2,555,209	0.6079		2,570,406

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1658	5.4761	1.6834	0.0184	0.4874	6.4800e-003	0.4939	0.1403	6.1900e-003	0.1465		1,951.6755	1,951.6755	0.0857		1,953.8173
Worker	0.9857	0.6193	6.4109	0.0224	2.7191	0.0164	2.7355	0.7212	0.0151	0.7363		2,237.1567	2,237.1567	0.0438		2,238.2511
Total	1.1516	6.0953	8.0943	0.0408	3.2065	0.0229	3.2293	0.8615	0.0213	0.8828		4,188.8322	4,188.8322	0.1295		4,192.0684

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1658	5.4761	1.6834	0.0184	0.4874	6.4800e-003	0.4939	0.1403	6.1900e-003	0.1465		1,951.6755	1,951.6755	0.0857		1,953.8173
Worker	0.9857	0.6193	6.4109	0.0224	2.7191	0.0164	2.7355	0.7212	0.0151	0.7363		2,237.1567	2,237.1567	0.0438		2,238.2511
Total	1.1516	6.0953	8.0943	0.0408	3.2065	0.0229	3.2293	0.8615	0.0213	0.8828		4,188.8322	4,188.8322	0.1295		4,192.0684

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1603	5.4149	1.6201	0.0183	0.4874	6.3500e-003	0.4938	0.1403	6.0600e-003	0.1464		1,938.729	1,938.729	0.0839		1,940.826
Worker	0.9285	0.5593	5.9316	0.0215	2.7191	0.0161	2.7351	0.7212	0.0148	0.7360		2,148.620	2,148.620	0.0394		2,149.604
Total	1.0887	5.9742	7.5517	0.0398	3.2065	0.0224	3.2289	0.8615	0.0208	0.8824		4,087.349	4,087.349	0.1233		4,090.431

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.698	2,555.698	0.6044		2,570.807
Total	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.698	2,555.698	0.6044		2,570.807

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1603	5.4149	1.6201	0.0183	0.4874	6.3500e-003	0.4938	0.1403	6.0600e-003	0.1464		1,938.729	1,938.729	0.0839		1,940.826
Worker	0.9285	0.5593	5.9316	0.0215	2.7191	0.0161	2.7351	0.7212	0.0148	0.7360		2,148.620	2,148.620	0.0394		2,149.604
Total	1.0887	5.9742	7.5517	0.0398	3.2065	0.0224	3.2289	0.8615	0.0208	0.8824		4,087.349	4,087.349	0.1233		4,090.431

3.7 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.620	1,805.620	0.5673		1,819.803
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.620	1,805.620	0.5673		1,819.803

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.7 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0338	0.3584	1.3000e-003	0.1643	9.7000e-004	0.1653	0.0436	8.9000e-004	0.0445		129.8260	129.8260	2.3800e-003		129.8855
Total	0.0561	0.0338	0.3584	1.3000e-003	0.1643	9.7000e-004	0.1653	0.0436	8.9000e-004	0.0445		129.8260	129.8260	2.3800e-003		129.8855

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	0.7524	16.0849	13.5323	0.0189		0.5601	0.5601		0.5601	0.5601	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7524	16.0849	13.5323	0.0189		0.5601	0.5601		0.5601	0.5601	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.7 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0338	0.3584	1.3000e-003	0.1643	9.7000e-004	0.1653	0.0436	8.9000e-004	0.0445		129.8260	129.8260	2.3800e-003		129.8855
Total	0.0561	0.0338	0.3584	1.3000e-003	0.1643	9.7000e-004	0.1653	0.0436	8.9000e-004	0.0445		129.8260	129.8260	2.3800e-003		129.8855

3.8 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	279.7846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	279.9653	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.8 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1851	0.1115	1.1827	4.3000e-003	0.5422	3.2000e-003	0.5454	0.1438	2.9500e-003	0.1468		428.4259	428.4259	7.8500e-003		428.6221
Total	0.1851	0.1115	1.1827	4.3000e-003	0.5422	3.2000e-003	0.5454	0.1438	2.9500e-003	0.1468		428.4259	428.4259	7.8500e-003		428.6221

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	279.7846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443
Total	279.8985	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443

Menlo Portal Project - Bay Area AQMD Air District, Winter

3.8 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1851	0.1115	1.1827	4.3000e-003	0.5422	3.2000e-003	0.5454	0.1438	2.9500e-003	0.1468		428.4259	428.4259	7.8500e-003		428.6221
Total	0.1851	0.1115	1.1827	4.3000e-003	0.5422	3.2000e-003	0.5454	0.1438	2.9500e-003	0.1468		428.4259	428.4259	7.8500e-003		428.6221

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Unbundle Parking Cost

Menlo Portal Project - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8019	8.2941	20.4700	0.0723	6.9152	0.0602	6.9754	1.8498	0.0562	1.9060		7,325.3007	7,325.3007	0.2667		7,331.9672
Unmitigated	1.8959	8.8799	22.6496	0.0827	8.0037	0.0683	8.0720	2.1410	0.0637	2.2047		8,381.8372	8,381.8372	0.2951		8,389.2142

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Unenclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Menlo Portal Project - Bay Area AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHO	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
City Park	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
General Office Building	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
Unenclosed Parking with Elevator	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	0.1007	0.8705	0.4401	5.4900e-003		0.0696	0.0696		0.0696	0.0696		1,098.3553	1,098.3553	0.0211	0.0201	1,104.8823
NaturalGas Unmitigated	0.1062	0.9186	0.4656	5.7900e-003		0.0734	0.0734		0.0734	0.0734		1,158.9238	1,158.9238	0.0222	0.0213	1,165.8107

Menlo Portal Project - Bay Area AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8012.86	0.0864	0.7384	0.3142	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.6895	942.6895	0.0181	0.0173	948.2914
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1837.99	0.0198	0.1802	0.1514	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.2343	216.2343	4.1400e-003	3.9600e-003	217.5193
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1062	0.9186	0.4656	5.7900e-003		0.0734	0.0734		0.0734	0.0734		1,158.9238	1,158.9238	0.0222	0.0212	1,165.8107

Menlo Portal Project - Bay Area AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.61996	0.0822	0.7022	0.2988	4.4800e-003		0.0568	0.0568		0.0568	0.0568		896.4665	896.4665	0.0172	0.0164	901.7937
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.71605	0.0185	0.1682	0.1413	1.0100e-003		0.0128	0.0128		0.0128	0.0128		201.8888	201.8888	3.8700e-003	3.7000e-003	203.0885
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1007	0.8705	0.4401	5.4900e-003		0.0696	0.0696		0.0696	0.0696		1,098.3553	1,098.3553	0.0211	0.0201	1,104.8823

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Menlo Portal Project - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.0268	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	49.8641	49.8641	0.0480	0.0000	51.0643
Unmitigated	13.7575	0.8714	61.5531	0.1120		5.6803	5.6803		5.6803	5.6803	815.7890	49.8641	865.6531	3.8617	0.0000	962.1945

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.8121					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.7907	0.5527	33.8807	0.1105		5.5270	5.5270		5.5270	5.5270	815.7890	0.0000	815.7890	3.8137	0.0000	911.1302
Landscaping	0.8349	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533		49.8641	49.8641	0.0480		51.0643
Total	13.7575	0.8714	61.5531	0.1120		5.6803	5.6803		5.6803	5.6803	815.7890	49.8641	865.6531	3.8617	0.0000	962.1945

Menlo Portal Project - Bay Area AQMD Air District, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.8121					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8349	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533		49.8641	49.8641	0.0480		51.0643
Total	10.0268	0.3187	27.6725	1.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	49.8641	49.8641	0.0480	0.0000	51.0643

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

Menlo Portal Project - Bay Area AQMD Air District, Winter

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
Emergency Generator	1	0.14	50	335	0.73	Diesel

Boilers

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

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

10.1 Stationary Sources

Unmitigated/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	
Equipment Type	lb/day										lb/day						
Emergency Generator - Diesel (300 - 600 HP)	0.0770	0.2151	0.1963	3.7000e-004		0.0113	0.0113		0.0113	0.0113		39.3732	39.3732	5.5200e-003			39.5112
Total	0.0770	0.2151	0.1963	3.7000e-004		0.0113	0.0113		0.0113	0.0113		39.3732	39.3732	5.5200e-003			39.5112

Menlo Portal Project - Bay Area AQMD Air District, Winter

11.0 Vegetation

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	230.00	887.00
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	8.00	38.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	5.00	26.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	50.25	0.00
tblFireplaces	NumberNoFireplace	13.40	335.00
tblFireplaces	NumberWood	56.95	0.00
tblGrading	AcresOfGrading	19.00	3.20
tblGrading	AcresOfGrading	20.00	3.20
tblGrading	MaterialImported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	34,710.00	34,706.00
tblLandUse	LandUseSquareFeet	166,800.00	136,054.00

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

tblLandUse	LandUseSquareFeet	51400.80	51,319.00
tblLandUse	LandUseSquareFeet	335,000.00	327,970.00
tblLandUse	LotAcreage	0.80	0.02
tblLandUse	LotAcreage	3.75	1.00
tblLandUse	LotAcreage	8.82	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	335.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.14
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	6.39	4.87
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	5.86	4.87
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	6.65	4.87
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

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					
2021	0.4371	4.1314	3.2136	7.7600e-003	0.7249	0.1784	0.9033	0.3227	0.1658	0.4884	0.0000	696.9576	696.9576	0.1201	0.0000	699.9602
2022	0.4486	3.6568	3.9048	0.0109	0.4832	0.1315	0.6147	0.1303	0.1237	0.2539	0.0000	985.3563	985.3563	0.1076	0.0000	988.0454
2023	0.4084	3.1888	3.7595	0.0107	0.4817	0.1127	0.5944	0.1299	0.1060	0.2359	0.0000	961.5231	961.5231	0.1039	0.0000	964.1207
2024	2.6906	1.3563	1.6792	4.6500e-003	0.2084	0.0458	0.2542	0.0562	0.0430	0.0992	0.0000	419.2815	419.2815	0.0479	0.0000	420.4792
Maximum	2.6906	4.1314	3.9048	0.0109	0.7249	0.1784	0.9033	0.3227	0.1658	0.4884	0.0000	985.3563	985.3563	0.1201	0.0000	988.0454

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

2.1 Overall Construction

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										M1/yr					
2021	0.2482	4.5369	3.5267	7.7600e-003	0.4470	0.0215	0.4685	0.1778	0.0214	0.1991	0.0000	696.9572	696.9572	0.1201	0.0000	699.9597
2022	0.3507	4.8992	4.1412	0.0109	0.4832	0.0261	0.5093	0.1303	0.0257	0.1560	0.0000	985.3558	985.3558	0.1076	0.0000	988.0450
2023	0.3317	4.6193	4.0138	0.0107	0.4817	0.0247	0.5064	0.1299	0.0244	0.1543	0.0000	961.5227	961.5227	0.1039	0.0000	964.1203
2024	2.6633	2.0990	1.8030	4.6500e-003	0.2084	0.0113	0.2196	0.0562	0.0112	0.0673	0.0000	419.2813	419.2813	0.0479	0.0000	420.4790
Maximum	2.6633	4.8992	4.1412	0.0109	0.4832	0.0261	0.5093	0.1778	0.0257	0.1991	0.0000	985.3558	985.3558	0.1201	0.0000	988.0450

	ROG	NOx	CO	SO2	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	9.81	-30.98	-7.39	0.00	14.64	82.17	28.00	22.68	81.14	46.47	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)
1	5-3-2021	8-2-2021	1.9156	1.7859
2	8-3-2021	11-2-2021	1.8798	2.0915
3	11-3-2021	2-2-2022	1.1057	1.3432
4	2-3-2022	5-2-2022	1.0030	1.2819
5	5-3-2022	8-2-2022	1.0303	1.3186
6	8-3-2022	11-2-2022	1.0339	1.3223
7	11-3-2022	2-2-2023	0.9954	1.3031
8	2-3-2023	5-2-2023	0.8821	1.2131

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

9	5-3-2023	8-2-2023	0.9065	1.2486
10	8-3-2023	11-2-2023	0.9095	1.2516
11	11-3-2023	2-2-2024	0.8976	1.2545
12	2-3-2024	5-2-2024	0.8450	1.2199
13	5-3-2024	8-2-2024	2.7622	2.9580
		Highest	2.7622	2.9580

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	1.7790	0.0326	2.7297	9.1000e-004		0.0528	0.0528		0.0528	0.0528	5.2249	4.0712	9.2961	0.0284	0.0000	10.0048
Energy	0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	506.7758	506.7758	0.0315	9.2600e-003	510.3228
Mobile	0.3489	1.5878	3.9434	0.0152	1.4021	0.0124	1.4145	0.3763	0.0116	0.3878	0.0000	1,397,128.1	1,397,128.1	0.0475	0.0000	1,398,316.7
Stationary	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Waste						0.0000	0.0000		0.0000	0.0000	37.8538	0.0000	37.8538	2.2371	0.0000	93.7811
Water						0.0000	0.0000		0.0000	0.0000	8.8818	32.4830	41.3648	0.9151	0.0221	70.8380
Total	2.1610	1.8264	6.7932	0.0172	1.4021	0.0806	1.4827	0.3763	0.0798	0.4561	51.9604	1,946,836.5	1,998,796.9	3.2604	0.0314	2,089,664.1

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M1/yr					
Area	1.7527	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692
Energy	0.0184	0.1589	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	479.3587	479.3587	0.0297	8.7600e-003	482.7132
Mobile	0.3319	1.4856	3.5483	0.0133	1.2114	0.0109	1.2223	0.3251	0.0102	0.3353	0.0000	1,221.6554	1,221.6554	0.0429	0.0000	1,222.7267
Stationary	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Waste						0.0000	0.0000		0.0000	0.0000	9.4634	0.0000	9.4634	0.5593	0.0000	23.4453
Water						0.0000	0.0000		0.0000	0.0000	7.1054	27.9645	35.0699	0.7323	0.0177	58.6636
Total	2.1167	1.7115	6.1542	0.0145	1.2114	0.0394	1.2508	0.3251	0.0387	0.3638	16.5688	1,739.4282	1,755.9970	1.3689	0.0265	1,798.1187

	ROG	NOx	CO	SO2	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	2.05	6.29	9.41	15.96	13.60	51.09	15.64	13.60	51.50	20.23	68.11	10.65	12.15	58.01	15.58	13.95

3.0 Construction Detail

Construction Phase

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/3/2021	7/2/2021	6	53	
2	Site Preparation	Site Preparation	7/5/2021	8/3/2021	6	26	
3	Rough Grading	Grading	7/5/2021	8/17/2021	6	38	
4	Fine Grading	Grading	8/2/2021	9/16/2021	6	40	
5	Building Construction	Building Construction	8/2/2021	5/31/2024	6	887	
6	Paving	Paving	6/3/2024	6/22/2024	6	18	
7	Architectural Coating	Architectural Coating	6/3/2024	6/22/2024	6	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 664,139; Residential Outdoor: 221,380; Non-Residential Indoor: 52,059; Non-Residential Outdoor: 17,353; Striped Parking Area: 8,163 (Architectural Coating – sqft)

OffRoad Equipment

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Fine Grading	Excavators	1	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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	6.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	295.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	0.00	625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	331.00	72.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	66.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0319	0.0000	0.0319	4.8300e-003	0.0000	4.8300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0839	0.8332	0.5715	1.0300e-003		0.0411	0.0411		0.0382	0.0382	0.0000	90.1021	90.1021	0.0254	0.0000	90.7361
Total	0.0839	0.8332	0.5715	1.0300e-003	0.0319	0.0411	0.0730	4.8300e-003	0.0382	0.0430	0.0000	90.1021	90.1021	0.0254	0.0000	90.7361

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1600e-003	0.0398	8.4800e-003	1.1000e-004	2.4900e-003	1.2000e-004	2.6100e-003	6.9000e-004	1.2000e-004	8.0000e-004	0.0000	11.1590	11.1590	5.7000e-004	0.0000	11.1733
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	8.4000e-004	8.9200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	2.0000e-005	8.5000e-004	0.0000	2.6553	2.6553	6.0000e-005	0.0000	2.6568
Total	2.3800e-003	0.0407	0.0174	1.4000e-004	5.6300e-003	1.4000e-004	5.7700e-003	1.5300e-003	1.4000e-004	1.6500e-003	0.0000	13.8143	13.8143	6.3000e-004	0.0000	13.8300

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0144	0.0000	0.0144	2.1700e-003	0.0000	2.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.8656	0.6539	1.0300e-003		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	90.1020	90.1020	0.0254	0.0000	90.7360
Total	0.0334	0.8656	0.6539	1.0300e-003	0.0144	3.6300e-003	0.0180	2.1700e-003	3.6300e-003	5.8000e-003	0.0000	90.1020	90.1020	0.0254	0.0000	90.7360

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1600e-003	0.0398	8.4800e-003	1.1000e-004	2.4900e-003	1.2000e-004	2.6100e-003	6.9000e-004	1.2000e-004	8.0000e-004	0.0000	11.1590	11.1590	5.7000e-004	0.0000	11.1733
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	8.4000e-004	8.9200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	2.0000e-005	8.5000e-004	0.0000	2.6553	2.6553	6.0000e-005	0.0000	2.6568
Total	2.3800e-003	0.0407	0.0174	1.4000e-004	5.6300e-003	1.4000e-004	5.7700e-003	1.5300e-003	1.4000e-004	1.6500e-003	0.0000	13.8143	13.8143	6.3000e-004	0.0000	13.8300

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2349	0.0000	0.2349	0.1291	0.0000	0.1291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0506	0.5265	0.2750	4.9000e-004		0.0266	0.0266		0.0245	0.0245	0.0000	43.4664	43.4664	0.0141	0.0000	43.8179
Total	0.0506	0.5265	0.2750	4.9000e-004	0.2349	0.0266	0.2614	0.1291	0.0245	0.1536	0.0000	43.4664	43.4664	0.0141	0.0000	43.8179

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.2000e-004	5.0000e-004	5.2500e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5631	1.5631	4.0000e-005	0.0000	1.5640
Total	7.2000e-004	5.0000e-004	5.2500e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5631	1.5631	4.0000e-005	0.0000	1.5640

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1057	0.0000	0.1057	0.0581	0.0000	0.0581	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0157	0.4384	0.2985	4.9000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003	0.0000	43.4664	43.4664	0.0141	0.0000	43.8178
Total	0.0157	0.4384	0.2985	4.9000e-004	0.1057	1.8500e-003	0.1075	0.0581	1.8500e-003	0.0599	0.0000	43.4664	43.4664	0.0141	0.0000	43.8178

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.2000e-004	5.0000e-004	5.2500e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5631	1.5631	4.0000e-005	0.0000	1.5640
Total	7.2000e-004	5.0000e-004	5.2500e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5631	1.5631	4.0000e-005	0.0000	1.5640

3.4 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1164	0.0000	0.1164	0.0631	0.0000	0.0631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0435	0.4700	0.3013	5.6000e-004		0.0220	0.0220		0.0203	0.0203	0.0000	49.5020	49.5020	0.0160	0.0000	49.9023
Total	0.0435	0.4700	0.3013	5.6000e-004	0.1164	0.0220	0.1384	0.0631	0.0203	0.0834	0.0000	49.5020	49.5020	0.0160	0.0000	49.9023

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.4 Rough Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4600e-003	0.0843	0.0180	2.4000e-004	5.2800e-003	2.6000e-004	5.5400e-003	1.4500e-003	2.5000e-004	1.7000e-003	0.0000	23.6420	23.6420	1.2100e-003	0.0000	23.6721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	6.0000e-004	6.3900e-003	2.0000e-005	2.2500e-003	1.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.1000e-004	0.0000	1.9038	1.9038	4.0000e-005	0.0000	1.9048
Total	3.3300e-003	0.0849	0.0244	2.6000e-004	7.5300e-003	2.7000e-004	7.8100e-003	2.0500e-003	2.6000e-004	2.3100e-003	0.0000	25.5457	25.5457	1.2500e-003	0.0000	25.5770

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0524	0.0000	0.0524	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0192	0.4993	0.3608	5.6000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	49.5020	49.5020	0.0160	0.0000	49.9022
Total	0.0192	0.4993	0.3608	5.6000e-004	0.0524	2.2000e-003	0.0546	0.0284	2.2000e-003	0.0306	0.0000	49.5020	49.5020	0.0160	0.0000	49.9022

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.4 Rough Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4600e-003	0.0843	0.0180	2.4000e-004	5.2800e-003	2.6000e-004	5.5400e-003	1.4500e-003	2.5000e-004	1.7000e-003	0.0000	23.6420	23.6420	1.2100e-003	0.0000	23.6721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	6.0000e-004	6.3900e-003	2.0000e-005	2.2500e-003	1.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.1000e-004	0.0000	1.9038	1.9038	4.0000e-005	0.0000	1.9048
Total	3.3300e-003	0.0849	0.0244	2.6000e-004	7.5300e-003	2.7000e-004	7.8100e-003	2.0500e-003	2.6000e-004	2.3100e-003	0.0000	25.5457	25.5457	1.2500e-003	0.0000	25.5770

3.5 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1221	0.0000	0.1221	0.0664	0.0000	0.0664	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0458	0.4947	0.3172	5.9000e-004		0.0232	0.0232		0.0213	0.0213	0.0000	52.1074	52.1074	0.0169	0.0000	52.5287
Total	0.0458	0.4947	0.3172	5.9000e-004	0.1221	0.0232	0.1453	0.0664	0.0213	0.0877	0.0000	52.1074	52.1074	0.0169	0.0000	52.5287

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.5 Fine Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051
Total	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0550	0.0000	0.0550	0.0299	0.0000	0.0299	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.5256	0.3798	5.9000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	52.1073	52.1073	0.0169	0.0000	52.5287
Total	0.0202	0.5256	0.3798	5.9000e-004	0.0550	2.3200e-003	0.0573	0.0299	2.3200e-003	0.0322	0.0000	52.1073	52.1073	0.0169	0.0000	52.5287

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.5 Fine Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051
Total	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1245	1.1418	1.0857	1.7600e-003		0.0628	0.0628		0.0590	0.0590	0.0000	151.7224	151.7224	0.0366	0.0000	152.6375
Total	0.1245	1.1418	1.0857	1.7600e-003		0.0628	0.0628		0.0590	0.0590	0.0000	151.7224	151.7224	0.0366	0.0000	152.6375

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0150	0.4926	0.1230	1.2700e-003	0.0309	1.0700e-003	0.0320	8.9400e-003	1.0200e-003	9.9700e-003	0.0000	122.3066	122.3066	6.0100e-003	0.0000	122.4569
Worker	0.0665	0.0459	0.4863	1.6000e-003	0.1713	1.1200e-003	0.1724	0.0456	1.0300e-003	0.0466	0.0000	144.8236	144.8236	3.2500e-003	0.0000	144.9048
Total	0.0815	0.5385	0.6092	2.8700e-003	0.2023	2.1900e-003	0.2044	0.0545	2.0500e-003	0.0566	0.0000	267.1302	267.1302	9.2600e-003	0.0000	267.3617

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	0.0708	1.5428	1.1707	1.7600e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	151.7222	151.7222	0.0366	0.0000	152.6373
Total	0.0708	1.5428	1.1707	1.7600e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	151.7222	151.7222	0.0366	0.0000	152.6373

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0150	0.4926	0.1230	1.2700e-003	0.0309	1.0700e-003	0.0320	8.9400e-003	1.0200e-003	9.9700e-003	0.0000	122.3066	122.3066	6.0100e-003	0.0000	122.4569
Worker	0.0665	0.0459	0.4863	1.6000e-003	0.1713	1.1200e-003	0.1724	0.0456	1.0300e-003	0.0466	0.0000	144.8236	144.8236	3.2500e-003	0.0000	144.9048
Total	0.0815	0.5385	0.6092	2.8700e-003	0.2023	2.1900e-003	0.2044	0.0545	2.0500e-003	0.0566	0.0000	267.1302	267.1302	9.2600e-003	0.0000	267.3617

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2670	2.4439	2.5609	4.2200e-003		0.1266	0.1266		0.1191	0.1191	0.0000	362.6500	362.6500	0.0869	0.0000	364.8220
Total	0.2670	2.4439	2.5609	4.2200e-003		0.1266	0.1266		0.1191	0.1191	0.0000	362.6500	362.6500	0.0869	0.0000	364.8220

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0334	1.1146	0.2762	3.0100e-003	0.0739	2.2200e-003	0.0761	0.0214	2.1200e-003	0.0235	0.0000	289.3633	289.3633	0.0137	0.0000	289.7066
Worker	0.1482	0.0963	1.0677	3.6800e-003	0.4093	2.6200e-003	0.4119	0.1089	2.4100e-003	0.1113	0.0000	333.3429	333.3429	6.9600e-003	0.0000	333.5169
Total	0.1816	1.2130	1.3439	6.6900e-003	0.4832	4.8400e-003	0.4881	0.1303	4.5300e-003	0.1348	0.0000	622.7063	622.7063	0.0207	0.0000	623.2234

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	0.1692	3.6863	2.7972	4.2200e-003		0.0212	0.0212		0.0212	0.0212	0.0000	362.6496	362.6496	0.0869	0.0000	364.8216
Total	0.1692	3.6863	2.7972	4.2200e-003		0.0212	0.0212		0.0212	0.0212	0.0000	362.6496	362.6496	0.0869	0.0000	364.8216

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0334	1.1146	0.2762	3.0100e-003	0.0739	2.2200e-003	0.0761	0.0214	2.1200e-003	0.0235	0.0000	289.3633	289.3633	0.0137	0.0000	289.7066
Worker	0.1482	0.0963	1.0677	3.6800e-003	0.4093	2.6200e-003	0.4119	0.1089	2.4100e-003	0.1113	0.0000	333.3429	333.3429	6.9600e-003	0.0000	333.5169
Total	0.1816	1.2130	1.3439	6.6900e-003	0.4832	4.8400e-003	0.4881	0.1303	4.5300e-003	0.1348	0.0000	622.7063	622.7063	0.0207	0.0000	623.2234

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2454	2.2440	2.5341	4.2000e-003		0.1092	0.1092		0.1027	0.1027	0.0000	361.6154	361.6154	0.0860	0.0000	363.7660
Total	0.2454	2.2440	2.5341	4.2000e-003		0.1092	0.1092		0.1027	0.1027	0.0000	361.6154	361.6154	0.0860	0.0000	363.7660

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0250	0.8567	0.2465	2.9100e-003	0.0737	9.9000e-004	0.0747	0.0213	9.4000e-004	0.0223	0.0000	280.3552	280.3552	0.0117	0.0000	280.6468
Worker	0.1381	0.0881	0.9790	3.5300e-003	0.4080	2.5500e-003	0.4106	0.1086	2.3500e-003	0.1109	0.0000	319.5525	319.5525	6.2200e-003	0.0000	319.7080
Total	0.1631	0.9448	1.2255	6.4400e-003	0.4817	3.5400e-003	0.4852	0.1299	3.2900e-003	0.1332	0.0000	599.9077	599.9077	0.0179	0.0000	600.3547

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	0.1686	3.6745	2.7883	4.2000e-003		0.0211	0.0211		0.0211	0.0211	0.0000	361.6150	361.6150	0.0860	0.0000	363.7655
Total	0.1686	3.6745	2.7883	4.2000e-003		0.0211	0.0211		0.0211	0.0211	0.0000	361.6150	361.6150	0.0860	0.0000	363.7655

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0250	0.8567	0.2465	2.9100e-003	0.0737	9.9000e-004	0.0747	0.0213	9.4000e-004	0.0223	0.0000	280.3552	280.3552	0.0117	0.0000	280.6468
Worker	0.1381	0.0881	0.9790	3.5300e-003	0.4080	2.5500e-003	0.4106	0.1086	2.3500e-003	0.1109	0.0000	319.5525	319.5525	6.2200e-003	0.0000	319.7080
Total	0.1631	0.9448	1.2255	6.4400e-003	0.4817	3.5400e-003	0.4852	0.1299	3.2900e-003	0.1332	0.0000	599.9077	599.9077	0.0179	0.0000	600.3547

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0964	0.8806	1.0589	1.7700e-003		0.0402	0.0402		0.0378	0.0378	0.0000	151.8612	151.8612	0.0359	0.0000	152.7589
Total	0.0964	0.8806	1.0589	1.7700e-003		0.0402	0.0402		0.0378	0.0378	0.0000	151.8612	151.8612	0.0359	0.0000	152.7589

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3557	0.0996	1.2100e-003	0.0309	4.1000e-004	0.0313	8.9500e-003	3.9000e-004	9.3300e-003	0.0000	116.9188	116.9188	4.8000e-003	0.0000	117.0387
Worker	0.0545	0.0334	0.3808	1.4200e-003	0.1713	1.0500e-003	0.1724	0.0456	9.7000e-004	0.0465	0.0000	128.8610	128.8610	2.3500e-003	0.0000	128.9198
Total	0.0646	0.3891	0.4804	2.6300e-003	0.2023	1.4600e-003	0.2037	0.0545	1.3600e-003	0.0559	0.0000	245.7798	245.7798	7.1500e-003	0.0000	245.9585

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	0.0708	1.5428	1.1707	1.7700e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	151.8610	151.8610	0.0359	0.0000	152.7588
Total	0.0708	1.5428	1.1707	1.7700e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	151.8610	151.8610	0.0359	0.0000	152.7588

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3557	0.0996	1.2100e-003	0.0309	4.1000e-004	0.0313	8.9500e-003	3.9000e-004	9.3300e-003	0.0000	116.9188	116.9188	4.8000e-003	0.0000	117.0387
Worker	0.0545	0.0334	0.3808	1.4200e-003	0.1713	1.0500e-003	0.1724	0.0456	9.7000e-004	0.0465	0.0000	128.8610	128.8610	2.3500e-003	0.0000	128.9198
Total	0.0646	0.3891	0.4804	2.6300e-003	0.2023	1.4600e-003	0.2037	0.0545	1.3600e-003	0.0559	0.0000	245.7798	245.7798	7.1500e-003	0.0000	245.9585

3.7 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.7 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.8000e-004	3.1600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0699	1.0699	2.0000e-005	0.0000	1.0703
Total	4.5000e-004	2.8000e-004	3.1600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0699	1.0699	2.0000e-005	0.0000	1.0703

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	6.7700e-003	0.1448	0.1218	1.7000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.7700e-003	0.1448	0.1218	1.7000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.7 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.8000e-004	3.1600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0699	1.0699	2.0000e-005	0.0000	1.0703
Total	4.5000e-004	2.8000e-004	3.1600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0699	1.0699	2.0000e-005	0.0000	1.0703

3.8 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.5181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	2.5197	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.8 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.2000e-004	0.0104	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5305	3.5305	6.0000e-005	0.0000	3.5321
Total	1.4900e-003	9.2000e-004	0.0104	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5305	3.5305	6.0000e-005	0.0000	3.5321

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	2.5181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0300e-003	0.0212	0.0165	3.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	2.5191	0.0212	0.0165	3.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

3.8 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.2000e-004	0.0104	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5305	3.5305	6.0000e-005	0.0000	3.5321
Total	1.4900e-003	9.2000e-004	0.0104	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5305	3.5305	6.0000e-005	0.0000	3.5321

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Unbundle Parking Cost

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3319	1.4856	3.5483	0.0133	1.2114	0.0109	1.2223	0.3251	0.0102	0.3353	0.0000	1,221.6554	1,221.6554	0.0429	0.0000	1,222.7267
Unmitigated	0.3489	1.5878	3.9434	0.0152	1.4021	0.0124	1.4145	0.3763	0.0116	0.3878	0.0000	1,397.1281	1,397.1281	0.0475	0.0000	1,398.3167

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Unenclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHO	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
City Park	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
General Office Building	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
Unenclosed Parking with Elevator	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	297.5137	297.5137	0.0262	5.4300e-003	299.7876
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	314.9030	314.9030	0.0278	5.7500e-003	317.3098
NaturalGas Mitigated	0.0184	0.1569	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.8450	181.8450	3.4900e-003	3.3300e-003	182.9257
NaturalGas Unmitigated	0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	191.8728	191.8728	3.6800e-003	3.5200e-003	193.0130

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.92469e+006	0.0158	0.1348	0.0574	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.0728	156.0728	2.9900e-003	2.8600e-003	157.0003
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	670867	3.6200e-003	0.0329	0.0276	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.8000	35.8000	6.9000e-004	6.6000e-004	36.0128
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	191.8728	191.8728	3.6800e-003	3.5200e-003	193.0130

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

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 Mid Rise	2.78129e+006	0.0150	0.1282	0.0545	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.4201	148.4201	2.8400e-003	2.7200e-003	149.3021
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	626360	3.3800e-003	0.0307	0.0258	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	33.4250	33.4250	6.4000e-004	6.1000e-004	33.6236
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0184	0.1589	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.8450	181.8450	3.4800e-003	3.3300e-003	182.9256

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	M1/yr			
Apartments Mid Rise	1,414,376 +006	210.9403	0.0186	3.8500e-003	212.5625
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	433,131	64.5977	5.7000e-003	1.1800e-003	65.0914
Unenclosed Parking with Elevator	26,945	39.3650	3.4700e-003	7.2000e-004	39.6659
Total		314.9030	0.0278	5.7500e-003	317.3098

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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 Mid Rise	1,343,976 +006	200.4406	0.0177	3.6600e-003	201.9725
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	410,746	61.2591	5.4000e-003	1.1200e-003	61.7273
Unenclosed Parking with Elevator	240,135	35.8141	3.1600e-003	6.5000e-004	36.0878
Total		297.5137	0.0262	5.4300e-003	299.7876

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7527	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692
Unmitigated	1.7790	0.0326	2.7297	9.1000e-004		0.0528	0.0528		0.0528	0.0528	5.2249	4.0712	9.2961	0.0284	0.0000	10.0048

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	0.2518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0263	3.9000e-003	0.2392	7.8000e-004		0.0390	0.0390		0.0390	0.0390	5.2249	0.0000	5.2249	0.0244	0.0000	5.8355
Landscaping	0.0751	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692
Total	1.7790	0.0326	2.7297	9.1000e-004		0.0528	0.0528		0.0528	0.0528	5.2249	4.0712	9.2961	0.0284	0.0000	10.0048

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0751	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692
Total	1.7527	0.0287	2.4905	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.9200e-003	0.0000	4.1692

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	35.0699	0.7323	0.0177	58.6636
Unmitigated	41.3648	0.9151	0.0221	70.8380

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.8266 / 13.7602	31.7215	0.7134	0.0173	54.6959
City Park	0 / 1.40595	0.7339	6.0000e-005	1.0000e-005	0.7395
General Office Building	6.16914 / 3.78108	8.9094	0.2016	4.8700e-003	15.4025
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		41.3648	0.9151	0.0221	70.8380

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	17.4613 / 13.7602	26.8137	0.5709	0.0138	45.2043
City Park	0 / 1.40595	0.7339	6.0000e-005	1.0000e-005	0.7395
General Office Building	4.93531 / 3.78108	7.5223	0.1613	3.9100e-003	12.7198
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		35.0699	0.7323	0.0177	58.6636

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4634	0.5993	0.0000	23.4453
Unmitigated	37.8538	2.2371	0.0000	93.7811

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	154.1	31.2809	1.8487	0.0000	77.4971
City Park	0.1	0.0203	1.2000e-003	0.0000	0.0503
General Office Building	32.28	6.5526	0.3872	0.0000	16.2337
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		37.8538	2.2371	0.0000	93.7811

Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	38.525	7.6202	0.4622	0.0000	19.3743
City Park	0.025	5.0700e-003	3.0000e-004	0.0000	0.0126
General Office Building	8.07	1.6381	0.0968	0.0000	4.0584
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		9.4634	0.5993	0.0000	23.4453

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.14	50	335	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Menlo Portal Project - Mitigated - Bay Area AQMD Air District, Annual

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0137	0.0364	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Total	0.0137	0.0364	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007

11.0 Vegetation

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

Menlo Portal Project - 2030 Analysis
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	34.71	1000sqft	0.02	34,706.00	0
Unenclosed Parking with Elevator	417.00	Space	1.00	136,054.00	0
City Park	1.18	Acre	1.18	51,319.00	0
Apartments Mid Rise	335.00	Dwelling Unit	1.00	327,970.00	958

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	256.4	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity based on PG&E default and assuming a Renewables Portfolio Standard (RPS) of 60% by 2030.

Construction Phase - Operational analysis only.

Table Name	Column Name	Default Value	New Value
tblConstLustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblFireplaces	NumberGas	50.25	0.00

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

tblFireplaces	NumberNoFireplace	13.40	335.00
tblFireplaces	NumberWood	56.95	0.00
tblGrading	AcresOfGrading	4.00	3.20
tblGrading	AcresOfGrading	4.00	3.20
tblGrading	MaterialImported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	34,710.00	34,706.00
tblLandUse	LandUseSquareFeet	166,800.00	136,054.00
tblLandUse	LandUseSquareFeet	51,400.80	51,319.00
tblLandUse	LandUseSquareFeet	335,000.00	327,970.00
tblLandUse	LotAcreage	0.80	0.02
tblLandUse	LotAcreage	3.75	1.00
tblLandUse	LotAcreage	8.82	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	296.4
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	335.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.14
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	6.39	4.87
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	5.86	4.87
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	6.65	4.87
tblVehicleTrips	WD_TR	1.69	0.00
tblVehicleTrips	WD_TR	11.03	0.00

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

2.0 Emissions Summary

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					
2027	0.1010	1.6608	1.8712	5.3900e-003	0.3461	0.0531	0.3992	0.1161	0.0407	0.1648	0.0000	487.4733	487.4733	0.0636	0.0000	489.0607
2028	2.6332	0.9437	1.1874	3.3100e-003	0.1543	0.0299	0.1842	0.0416	0.0281	0.0697	0.0000	297.7599	297.7599	0.0355	0.0000	298.6462
Maximum	2.6332	1.6606	1.8712	5.3900e-003	0.3461	0.0531	0.3992	0.1151	0.0497	0.1648	0.0000	487.4733	487.4733	0.0635	0.0000	489.0607

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					
2027	0.1563	2.6468	2.0919	5.3900e-003	0.2752	0.0797	0.3549	0.0840	0.0796	0.1636	0.0000	487.4731	487.4731	0.0635	0.0000	489.0604
2028	2.6183	1.5636	1.2857	3.3100e-003	0.1543	0.0502	0.2046	0.0416	0.0502	0.0917	0.0000	297.7598	297.7598	0.0355	0.0000	298.6461
Maximum	2.6183	2.6468	2.0919	5.3900e-003	0.2752	0.0797	0.3549	0.0840	0.0796	0.1636	0.0000	487.4731	487.4731	0.0635	0.0000	489.0604

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.76	-61.67	-10.43	0.00	14.17	-56.57	4.11	19.85	-66.89	-8.92	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)
1	5-3-2027	8-2-2027	0.7386	1.0986
2	9-3-2027	11-2-2027	0.0070	1.0220
3	11-3-2027	2-2-2028	0.6699	1.0247
4	2-3-2028	5-2-2028	0.6508	0.9978
5	5-3-2028	8-2-2028	2.7777	2.9113
		Highest	2.7777	2.9113

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

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	1.7784	0.0325	2.7242	9.1000e-004		0.0528	0.0528		0.0528	0.0528	5.2249	4.0712	9.2961	0.0283	0.0000	10.0041
Energy	0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	437.4359	437.4359	0.0315	9.2600e-003	440.9829
Mobile	0.2609	1.3520	2.9012	0.0131	1.4013	8.7000e-003	1.4100	0.3759	8.1000e-003	0.3840	0.0000	1,209.9375	1,209.9375	0.0383	0.0000	1,210.8953
Stationary	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Waste						0.0000	0.0000		0.0000	0.0000	37.8538	0.0000	37.8538	2.2371	0.0000	93.7811
Water						0.0000	0.0000		0.0000	0.0000	8.8818	25.3304	34.2122	0.9151	0.0221	63.6854
Total	2.0725	1.5906	5.7453	0.0151	1.4013	0.0770	1.4783	0.3759	0.0764	0.4522	51.9604	1,683.1533	1,735.1137	3.2512	0.0314	1,825.7494

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7521	0.0286	2.4850	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.8900e-003	0.0000	4.1685
Energy	0.0184	0.1589	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	413.8478	413.8478	0.0297	8.7600e-003	417.2023
Mobile	0.2473	1.2789	2.6044	0.0115	1.2107	7.6900e-003	1.2184	0.3248	7.1600e-003	0.3319	0.0000	1,058.9980	1,058.9980	0.0345	0.0000	1,059.8603
Stationary	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Waste						0.0000	0.0000		0.0000	0.0000	9.4634	0.0000	9.4634	0.5593	0.0000	23.4453
Water						0.0000	0.0000		0.0000	0.0000	7.1054	21.8069	28.9123	0.7323	0.0177	52.5060
Total	2.0316	1.5048	5.2048	0.0127	1.2107	0.0362	1.2470	0.3248	0.0357	0.3605	16.5688	1,505.1022	1,521.6711	1.3605	0.0265	1,563.5830

	ROG	NOx	CO	SO2	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	1.97	5.39	9.41	16.31	13.60	52.93	15.65	13.60	53.25	20.29	68.11	10.58	12.30	58.15	15.58	14.36

3.0 Construction Detail

Construction Phase

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/3/2027	5/28/2027	5	20	
2	Site Preparation	Site Preparation	5/29/2027	6/4/2027	5	5	
3	Rough Grading	Grading	6/5/2027	6/16/2027	5	8	
4	Fine Grading	Grading	6/17/2027	6/28/2027	5	8	
5	Building Construction	Building Construction	6/29/2027	5/15/2028	5	230	
6	Paving	Paving	5/16/2028	6/8/2028	5	18	
7	Architectural Coating	Architectural Coating	6/9/2028	7/4/2028	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 664,139; Residential Outdoor: 221,380; Non-Residential Indoor: 52,059; Non-Residential Outdoor: 17,353; Striped Parking Area: 8,163 (Architectural Coating – sqft)

OffRoad Equipment

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Fine Grading	Excavators	1	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	295.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	0.00	625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	331.00	72.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	66.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0319	0.0000	0.0319	4.8300e-003	0.0000	4.8300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350
Total	0.0209	0.1920	0.1942	3.9000e-004	0.0319	8.5300e-003	0.0404	4.8300e-003	7.9200e-003	0.0128	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.2 Demolition - 2027

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	7.2000e-004	0.0225	7.6600e-003	1.1000e-004	2.4900e-003	4.0000e-005	2.5300e-003	6.9000e-004	4.0000e-005	7.2000e-004	0.0000	10.2962	10.2962	4.9000e-004	0.0000	10.3085
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	3.2000e-004	1.8000e-004	2.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.7957	0.7957	1.0000e-005	0.0000	0.7960
Total	1.0400e-003	0.0226	9.7900e-003	1.2000e-004	3.6800e-003	5.0000e-005	3.7200e-003	1.0100e-003	5.0000e-005	1.0400e-003	0.0000	11.0919	11.0919	5.0000e-004	0.0000	11.1046

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0144	0.0000	0.0144	2.1700e-003	0.0000	2.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0126	0.3266	0.2467	3.9000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349
Total	0.0126	0.3266	0.2467	3.9000e-004	0.0144	9.1400e-003	0.0235	2.1700e-003	9.1400e-003	0.0113	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.2 Demolition - 2027

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	7.2000e-004	0.0225	7.6600e-003	1.1000e-004	2.4900e-003	4.0000e-005	2.5300e-003	6.9000e-004	4.0000e-005	7.2000e-004	0.0000	10.2962	10.2962	4.9000e-004	0.0000	10.3085
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	3.2000e-004	1.8000e-004	2.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.7957	0.7957	1.0000e-005	0.0000	0.7960
Total	1.0400e-003	0.0226	9.7900e-003	1.2000e-004	3.6800e-003	5.0000e-005	3.7200e-003	1.0100e-003	5.0000e-005	1.0400e-003	0.0000	11.0919	11.0919	5.0000e-004	0.0000	11.1046

3.3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1800e-003	0.0631	0.0448	1.0000e-004		2.7200e-003	2.7200e-003		2.5000e-003	2.5000e-003	0.0000	8.3668	8.3668	2.7100e-003	0.0000	8.4344
Total	6.1800e-003	0.0631	0.0448	1.0000e-004	0.0452	2.7200e-003	0.0479	0.0248	2.5000e-003	0.0273	0.0000	8.3668	8.3668	2.7100e-003	0.0000	8.4344

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.3 Site Preparation - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	5.0000e-005	6.4000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2387	0.2387	0.0000	0.0000	0.2388
Total	1.0000e-004	5.0000e-005	6.4000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2387	0.2387	0.0000	0.0000	0.2388

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0203	0.0000	0.0203	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0200e-003	0.0843	0.0574	1.0000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	8.3667	8.3667	2.7100e-003	0.0000	8.4344
Total	3.0200e-003	0.0843	0.0574	1.0000e-004	0.0203	2.3700e-003	0.0227	0.0112	2.3700e-003	0.0135	0.0000	8.3667	8.3667	2.7100e-003	0.0000	8.4344

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.3 Site Preparation - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	5.0000e-005	6.4000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2387	0.2387	0.0000	0.0000	0.2388
Total	1.0000e-004	5.0000e-005	6.4000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2387	0.2387	0.0000	0.0000	0.2388

3.4 Rough Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0261	0.0000	0.0261	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0613	0.0582	1.2000e-004		2.4900e-003	2.4900e-003		2.2900e-003	2.2900e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122
Total	6.0900e-003	0.0613	0.0582	1.2000e-004	0.0261	2.4900e-003	0.0286	0.0135	2.2900e-003	0.0158	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.4 Rough Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5200e-003	0.0476	0.0162	2.2000e-004	5.2800e-003	9.0000e-005	5.3700e-003	1.4500e-003	8.0000e-005	1.5400e-003	0.0000	21.8140	21.8140	1.0400e-003	0.0000	21.8401
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	8.5000e-004	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3183	0.3183	0.0000	0.0000	0.3184
Total	1.6500e-003	0.0476	0.0171	2.2000e-004	5.7500e-003	9.0000e-005	5.8500e-003	1.5800e-003	8.0000e-005	1.6700e-003	0.0000	22.1323	22.1323	1.0400e-003	0.0000	22.1585

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0117	0.0000	0.0117	6.0600e-003	0.0000	6.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0400e-003	0.1051	0.0760	1.2000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122
Total	4.0400e-003	0.1051	0.0760	1.2000e-004	0.0117	3.0900e-003	0.0148	6.0600e-003	3.0900e-003	9.1500e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.4 Rough Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5200e-003	0.0476	0.0162	2.2000e-004	5.2800e-003	9.0000e-005	5.3700e-003	1.4500e-003	8.0000e-005	1.5400e-003	0.0000	21.8140	21.8140	1.0400e-003	0.0000	21.8401
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	8.5000e-004	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3183	0.3183	0.0000	0.0000	0.3184
Total	1.6500e-003	0.0476	0.0171	2.2000e-004	5.7500e-003	9.0000e-005	5.8500e-003	1.5800e-003	8.0000e-005	1.6700e-003	0.0000	22.1323	22.1323	1.0400e-003	0.0000	22.1585

3.5 Fine Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0258	0.0000	0.0258	0.0134	0.0000	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0613	0.0582	1.2000e-004		2.4900e-003	2.4900e-003		2.2900e-003	2.2900e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122
Total	6.0900e-003	0.0613	0.0582	1.2000e-004	0.0258	2.4900e-003	0.0283	0.0134	2.2900e-003	0.0157	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.5 Fine Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	8.5000e-004	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3183	0.3183	0.0000	0.0000	0.3184
Total	1.3000e-004	7.0000e-005	8.5000e-004	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3183	0.3183	0.0000	0.0000	0.3184

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0116	0.0000	0.0116	6.0400e-003	0.0000	6.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0400e-003	0.1051	0.0760	1.2000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122
Total	4.0400e-003	0.1051	0.0760	1.2000e-004	0.0116	3.0900e-003	0.0147	6.0400e-003	3.0900e-003	9.1300e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.5 Fine Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	8.5000e-004	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3183	0.3183	0.0000	0.0000	0.3184
Total	1.3000e-004	7.0000e-005	8.5000e-004	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3183	0.3183	0.0000	0.0000	0.3184

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0916	0.8355	1.0777	1.8100e-003		0.0354	0.0354		0.0333	0.0333	0.0000	155.3860	155.3860	0.0365	0.0000	156.2992
Total	0.0916	0.8355	1.0777	1.8100e-003		0.0354	0.0354		0.0333	0.0333	0.0000	155.3860	155.3860	0.0365	0.0000	156.2992

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6100e-003	0.3510	0.0950	1.2200e-003	0.0316	3.9000e-004	0.0320	9.1500e-003	3.7000e-004	9.5300e-003	0.0000	117.4407	117.4407	4.6500e-003	0.0000	117.5569
Worker	0.0476	0.0261	0.3149	1.3000e-003	0.1752	9.8000e-004	0.1762	0.0466	9.0000e-004	0.0475	0.0000	117.6451	117.6451	1.8100e-003	0.0000	117.6904
Total	0.0572	0.3771	0.4099	2.5200e-003	0.2069	1.3700e-003	0.2082	0.0558	1.2700e-003	0.0571	0.0000	235.0858	235.0858	6.4600e-003	0.0000	235.2473

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	0.0724	1.5781	1.1975	1.8100e-003		0.0605	0.0605		0.0605	0.0605	0.0000	155.3859	155.3859	0.0365	0.0000	156.2990
Total	0.0724	1.5781	1.1975	1.8100e-003		0.0605	0.0605		0.0605	0.0605	0.0000	155.3859	155.3859	0.0365	0.0000	156.2990

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2027

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	9.6100e-003	0.3510	0.0950	1.2200e-003	0.0316	3.9000e-004	0.0320	9.1500e-003	3.7000e-004	9.5300e-003	0.0000	117.4407	117.4407	4.6500e-003	0.0000	117.5569
Worker	0.0476	0.0261	0.3149	1.3000e-003	0.1752	9.8000e-004	0.1762	0.0466	9.0000e-004	0.0475	0.0000	117.6451	117.6451	1.8100e-003	0.0000	117.6904
Total	0.0572	0.3771	0.4099	2.5200e-003	0.2069	1.3700e-003	0.2082	0.0558	1.2700e-003	0.0571	0.0000	235.0858	235.0858	6.4600e-003	0.0000	235.2473

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0656	0.5965	0.7721	1.2900e-003		0.0253	0.0253		0.0238	0.0238	0.0000	111.3213	111.3213	0.0262	0.0000	111.9755
Total	0.0656	0.5965	0.7721	1.2900e-003		0.0253	0.0253		0.0238	0.0238	0.0000	111.3213	111.3213	0.0262	0.0000	111.9755

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7600e-003	0.2490	0.0671	8.7000e-004	0.0227	2.8000e-004	0.0229	6.5600e-003	2.6000e-004	6.8200e-003	0.0000	83.7415	83.7415	3.2800e-003	0.0000	83.8234
Worker	0.0322	0.0172	0.2121	9.0000e-004	0.1255	6.5000e-004	0.1262	0.0334	6.0000e-004	0.0340	0.0000	81.6796	81.6796	1.1900e-003	0.0000	81.7094
Total	0.0390	0.2662	0.2791	1.7700e-003	0.1482	9.3000e-004	0.1491	0.0400	8.6000e-004	0.0408	0.0000	165.4211	165.4211	4.4700e-003	0.0000	165.5328

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	0.0519	1.1306	0.8579	1.2900e-003		0.0434	0.0434		0.0434	0.0434	0.0000	111.3212	111.3212	0.0262	0.0000	111.9754
Total	0.0519	1.1306	0.8579	1.2900e-003		0.0434	0.0434		0.0434	0.0434	0.0000	111.3212	111.3212	0.0262	0.0000	111.9754

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.6 Building Construction - 2028

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	6.7600e-003	0.2490	0.0671	8.7000e-004	0.0227	2.8000e-004	0.0229	6.5600e-003	2.6000e-004	6.8200e-003	0.0000	83.7415	83.7415	3.2800e-003	0.0000	83.8234
Worker	0.0322	0.0172	0.2121	9.0000e-004	0.1255	6.5000e-004	0.1262	0.0334	6.0000e-004	0.0340	0.0000	81.6796	81.6796	1.1900e-003	0.0000	81.7094
Total	0.0390	0.2662	0.2791	1.7700e-003	0.1482	9.3000e-004	0.1491	0.0400	8.6000e-004	0.0408	0.0000	165.4211	165.4211	4.4700e-003	0.0000	165.5328

3.7 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3800e-003	0.0678	0.1096	1.7000e-004		3.1700e-003	3.1700e-003	2.9300e-003	2.9300e-003	0.0000	14.7404	14.7404	4.6300e-003	0.0000	0.0000	14.8562
Paving	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	7.3800e-003	0.0678	0.1096	1.7000e-004		3.1700e-003	3.1700e-003	2.9300e-003	2.9300e-003	0.0000	14.7404	14.7404	4.6300e-003	0.0000	0.0000	14.8562

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.7 Paving - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.0000e-004	2.4000e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	0.9254	0.9254	1.0000e-005	0.0000	0.9257
Total	3.7000e-004	2.0000e-004	2.4000e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	0.9254	0.9254	1.0000e-005	0.0000	0.9257

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	6.7700e-003	0.1448	0.1218	1.7000e-004		5.0400e-003	5.0400e-003	5.0400e-003	5.0400e-003	5.0400e-003	0.0000	14.7404	14.7404	4.6300e-003	0.0000	14.8562
Paving	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	6.7700e-003	0.1448	0.1218	1.7000e-004		5.0400e-003	5.0400e-003	5.0400e-003	5.0400e-003	5.0400e-003	0.0000	14.7404	14.7404	4.6300e-003	0.0000	14.8562

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.7 Paving - 2028

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	3.7000e-004	2.0000e-004	2.4000e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	0.9254	0.9254	1.0000e-005	0.0000	0.9257
Total	3.7000e-004	2.0000e-004	2.4000e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	0.9254	0.9254	1.0000e-005	0.0000	0.9257

3.8 Architectural Coating - 2028

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	2.5181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011
Total	2.5196	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.8 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	6.4000e-004	7.9300e-003	3.0000e-005	4.6900e-003	2.0000e-005	4.7200e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.0537	3.0537	4.0000e-005	0.0000	3.0549
Total	1.2000e-003	6.4000e-004	7.9300e-003	3.0000e-005	4.6900e-003	2.0000e-005	4.7200e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.0537	3.0537	4.0000e-005	0.0000	3.0549

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	2.5181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0300e-003	0.0212	0.0165	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011
Total	2.5191	0.0212	0.0165	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

3.8 Architectural Coating - 2028

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										M1/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	6.4000e-004	7.9300e-003	3.0000e-005	4.6900e-003	2.0000e-005	4.7200e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.0537	3.0537	4.0000e-005	0.0000	3.0549
Total	1.2000e-003	6.4000e-004	7.9300e-003	3.0000e-005	4.6900e-003	2.0000e-005	4.7200e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.0537	3.0537	4.0000e-005	0.0000	3.0549

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Unbundle Parking Cost

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2473	1.2789	2.6044	0.0115	1.2107	7.6900e-003	1.2184	0.3248	7.1600e-003	0.3319	0.0000	1,058,998 0	1,058,998 0	0.0345	0.0000	1,059,860 3
Unmitigated	0.2609	1.3520	2.9012	0.0131	1.4013	8.7000e-003	1.4100	0.3759	8.1000e-003	0.3840	0.0000	1,209,937 5	1,209,937 5	0.0383	0.0000	1,210,895 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,631.45	1,631.45	1,631.45	3,768,009	3,255,587

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.585795	0.036515	0.193581	0.106455	0.012789	0.005274	0.019465	0.028415	0.002699	0.001789	0.005626	0.000921	0.000676
City Park	0.585795	0.036515	0.193581	0.106455	0.012789	0.005274	0.019465	0.028415	0.002699	0.001789	0.005626	0.000921	0.000676
General Office Building	0.585795	0.036515	0.193581	0.106455	0.012789	0.005274	0.019465	0.028415	0.002699	0.001789	0.005626	0.000921	0.000676
Unenclosed Parking with Elevator	0.585795	0.036515	0.193581	0.106455	0.012789	0.005274	0.019465	0.028415	0.002699	0.001789	0.005626	0.000921	0.000676

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	232.0028	232.0028	0.0262	5.4300e-003	234.2766
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	245.5630	245.5630	0.0278	5.7500e-003	247.9698
NaturalGas Mitigated	0.0184	0.1569	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.8450	181.8450	3.4900e-003	3.3300e-003	182.9257
NaturalGas Unmitigated	0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	191.8728	191.8728	3.6800e-003	3.5200e-003	193.0130

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
		tons/yr										MT/yr					
Apartments Mid Rise	2.92469e+006	0.0158	0.1348	0.0574	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.0728	156.0728	2.9900e-003	2.8600e-003	157.0003
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	670867	3.6200e-003	0.0329	0.0276	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.8000	35.8000	6.9000e-004	6.6000e-004	36.0128
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0194	0.1677	0.0850	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	191.8728	191.8728	3.6800e-003	3.5200e-003	193.0130

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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 Mid Rise	2.78129e+006	0.0150	0.1282	0.0545	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.4201	148.4201	2.8400e-003	2.7200e-003	149.3021
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	626360	3.3800e-003	0.0307	0.0258	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	33.4250	33.4250	6.4000e-004	6.1000e-004	33.6236
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0184	0.1589	0.0803	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.8450	181.8450	3.4800e-003	3.3300e-003	182.9256

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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 Mid Rise	1.41437e+006	164.4924	0.0186	3.8500e-003	166.1046
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	433131	50.3736	5.7000e-003	1.1800e-003	50.8673
Unenclosed Parking with Elevator	263945	30.6971	3.4700e-003	7.2000e-004	30.9979
Total		245.5630	0.0278	5.7500e-003	247.9698

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	M1/yr			
Apartments Mid Rise	1.34397e+006	156.3046	0.0177	3.6600e-003	157.8366
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	410746	47.7702	5.4000e-003	1.1200e-003	48.2384
Unenclosed Parking with Elevator	240135	27.9280	3.1600e-003	6.5000e-004	28.2017
Total		232.0028	0.0262	5.4300e-003	234.2766

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7521	0.0286	2.4850	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.8900e-003	0.0000	4.1685
Unmitigated	1.7784	0.0325	2.7242	9.1000e-004		0.0528	0.0528		0.0528	0.0528	5.2249	4.0712	9.2961	0.0283	0.0000	10.0041

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	0.2518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0263	3.9000e-003	0.2392	7.8000e-004		0.0390	0.0390		0.0390	0.0390	5.2249	0.0000	5.2249	0.0244	0.0000	5.8355
Landscaping	0.0746	0.0286	2.4850	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.8900e-003	0.0000	4.1685
Total	1.7704	0.0325	2.7242	9.1000e-004		0.0520	0.0520		0.0520	0.0520	5.2249	4.0712	9.2961	0.0203	0.0000	10.0041

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										M1/yr						
Architectural Coating	0.2518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0746	0.0286	2.4850	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.8900e-003	0.0000	4.1685	
Total	1.7521	0.0286	2.4850	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0712	4.0712	3.8900e-003	0.0000	4.1685	

7.0 Water Detail

7.1 Mitigation Measures Water

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

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	28.9123	0.7323	0.0177	52.5060
Unmitigated	34.2122	0.9151	0.0221	63.6854

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.8266 / 13.7602	26.2613	0.7134	0.0173	49.2358
City Park	0 / 1.40595	0.5723	6.0000e-005	1.0000e-005	0.5779
General Office Building	6.16914 / 3.78108	7.3786	0.2016	4.8700e-003	13.8717
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		34.2122	0.9151	0.0221	63.6854

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	M t/yr			
Apartments Mid Rise	17.4613 / 13.7602	22.1293	0.5709	0.0138	40.5199
City Park	0 / 1.40595	0.5723	6.0000e-005	1.0000e-005	0.5779
General Office Building	4.93531 / 3.78108	6.2107	0.1613	3.9100e-003	11.4082
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		28.9123	0.7323	0.0177	52.5060

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4634	0.5993	0.0000	23.4453
Unmitigated	37.8538	2.2371	0.0000	93.7811

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	154.1	31.2809	1.8487	0.0000	77.4971
City Park	0.1	0.0203	1.2000e-003	0.0000	0.0503
General Office Building	32.28	6.5526	0.3872	0.0000	16.2337
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		37.8538	2.2371	0.0000	93.7811

Menlo Portal Project - 2030 Analysis - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	M t/yr			
Apartments Mid Rise	38.525	7.8202	0.4622	0.0000	19.3743
City Park	0.025	5.0700e-003	3.0000e-004	0.0000	0.0126
General Office Building	8.07	1.6381	0.0968	0.0000	4.0584
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		9.4634	0.5593	0.0000	23.4453

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
Emergency Generator	1	0.14	50	335	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007
Total	0.0137	0.0384	0.0350	7.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	6.3784	6.3784	8.9000e-004	0.0000	6.4007

11.0 Vegetation