

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Annual

Santa Cruz County Medical Office Building
Monterey Bay Unified APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	160.00	1000sqft	3.67	157,611.00	0
Enclosed Parking with Elevator	730.00	Space	6.57	292,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	53
Climate Zone	5			Operational Year	2030
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	2	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Monterey Bay Community Power Emission Factor

Land Use - SF for MOB from plans.

Construction Phase - Combo of defaults and applicant provided.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - f

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - assumed 5,115 based on size of sheds and workshop

Grading - Applicant provided.

Architectural Coating - MBARD Rule 426, no exterior coating per applicant info0

Vehicle Trips - Per Kittelson TIA project would reduce overall trips and result in a net decrease in VMT

Area Coating - MABRD Rule 426

Energy Use - T24 Reductions

Water And Wastewater - 2016 T24 water use reductions

Solid Waste - SC County has reached 75% waste diversion, landfill solid waste reduced by 50% as compared to default rates

Construction Off-road Equipment Mitigation - All equipment would be Tier 4 per applicant info

Mobile Land Use Mitigation -

Area Mitigation - MBARD Rule 426

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	78,806.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	100.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00

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tblAreaCoating	Area_EF_Nonresidential_Exterior	150	0
tblAreaCoating	Area_EF_Nonresidential_Interior	150	100
tblAreaCoating	Area_EF_Parking	150	100
tblAreaCoating	Area_Nonresidential_Exterior	78806	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	0	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	359.00
tblConstructionPhase	NumDays	30.00	33.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	10.00	87.00
tblEnergyUse	T24E	4.10	2.87

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tblGrading	AcresOfGrading	82.50	5.00
tblGrading	MaterialImported	0.00	7,000.00
tblLandUse	LandUseSquareFeet	160,000.00	157,611.00
tblProjectCharacteristics	CO2IntensityFactor	0	2
tblSolidWaste	SolidWasteGenerationRate	1,728.00	864.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblWater	IndoorWaterUseRate	20,076,886.01	16,061,509.00

2.0 Emissions Summary

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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	0.2140	2.2871	1.4092	3.1000e-003	0.5384	0.1013	0.6397	0.2861	0.0934	0.3795	0.0000	275.9438	275.9438	0.0692	0.0000	277.6748
2022	0.4121	3.8908	3.5319	8.8800e-003	0.6254	0.1462	0.7716	0.2754	0.1368	0.4123	0.0000	798.0654	798.0654	0.1171	0.0000	800.9940
2023	0.7007	0.9994	1.0903	2.8000e-003	0.0850	0.0349	0.1199	0.0231	0.0328	0.0559	0.0000	251.8979	251.8979	0.0327	0.0000	252.7153
Maximum	0.7007	3.8908	3.5319	8.8800e-003	0.6254	0.1462	0.7716	0.2861	0.1368	0.4123	0.0000	798.0654	798.0654	0.1171	0.0000	800.9940

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					
2021	0.2140	2.2871	1.4092	3.1000e-003	0.5384	0.1013	0.6397	0.2861	0.0934	0.3795	0.0000	275.9436	275.9436	0.0692	0.0000	277.6746
2022	0.4121	3.8908	3.5319	8.8800e-003	0.6254	0.1462	0.7716	0.2754	0.1368	0.4123	0.0000	798.0649	798.0649	0.1171	0.0000	800.9935
2023	0.7007	0.9994	1.0903	2.8000e-003	0.0850	0.0349	0.1199	0.0231	0.0328	0.0559	0.0000	251.8977	251.8977	0.0327	0.0000	252.7152
Maximum	0.7007	3.8908	3.5319	8.8800e-003	0.6254	0.1462	0.7716	0.2861	0.1368	0.4123	0.0000	798.0649	798.0649	0.1171	0.0000	800.9935

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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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2021	1-31-2022	3.1744	3.1744
2	2-1-2022	4-30-2022	1.2276	1.2276
3	5-1-2022	7-31-2022	0.8742	0.8742
4	8-1-2022	10-31-2022	0.8768	0.8768
5	11-1-2022	1-31-2023	0.8493	0.8493
6	2-1-2023	4-30-2023	0.8139	0.8139
7	5-1-2023	7-31-2023	0.6266	0.6266
		Highest	3.1744	3.1744

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2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6943	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0221	0.0221	6.0000e-005	0.0000	0.0235
Energy	0.0164	0.1493	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	165.7401	165.7401	3.1200e-003	2.9800e-003	166.7063
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	175.3842	0.0000	175.3842	10.3649	0.0000	434.5069
Water						0.0000	0.0000		0.0000	0.0000	5.0956	0.0910	5.1866	0.5234	0.0124	21.9533
Total	0.7107	0.1494	0.1368	9.0000e-004	0.0000	0.0114	0.0114	0.0000	0.0114	0.0114	180.4798	165.8532	346.3330	10.8915	0.0153	623.1900

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6943	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0221	0.0221	6.0000e-005	0.0000	0.0235
Energy	0.0164	0.1493	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	165.7401	165.7401	3.1200e-003	2.9800e-003	166.7063
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	175.3842	0.0000	175.3842	10.3649	0.0000	434.5069
Water						0.0000	0.0000		0.0000	0.0000	5.0956	0.0910	5.1866	0.5234	0.0124	21.9533
Total	0.7107	0.1494	0.1368	9.0000e-004	0.0000	0.0114	0.0114	0.0000	0.0114	0.0114	180.4798	165.8532	346.3330	10.8915	0.0153	623.1900

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2021	11/26/2021	5	20	
2	Trenching/Utilities	Site Preparation	11/1/2021	3/1/2022	5	87	
3	Grading	Grading	11/1/2021	12/15/2021	5	33	
4	Building Construction	Building Construction	12/15/2021	5/1/2023	5	359	
5	Paving	Paving	1/2/2022	1/16/2022	5	10	
6	Paving II	Paving	4/17/2023	5/1/2023	5	11	
7	Architectural Coating	Architectural Coating	5/2/2023	6/12/2023	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 5

Acres of Paving: 6.57

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 236,417; Non-Residential Outdoor: 0; Striped Parking Area: 17,520 (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
Trenching/Utilities	Rubber Tired Dozers	3	8.00	247	0.40
Trenching/Utilities	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving II	Pavers	2	8.00	130	0.42
Paving II	Paving Equipment	2	8.00	132	0.36
Paving II	Rollers	2	8.00	80	0.38
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	23.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Utilities	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	875.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	173.00	74.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving II	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	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

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					2.5700e-003	0.0000	2.5700e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	0.0317	0.3144	0.2157	3.9000e-004	2.5700e-003	0.0155	0.0181	3.9000e-004	0.0144	0.0148	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400

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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	9.0000e-005	3.0900e-003	5.6000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8793	0.8793	4.0000e-005	0.0000	0.8802
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	5.3000e-004	4.8500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0734	1.0734	4.0000e-005	0.0000	1.0744
Total	6.9000e-004	3.6200e-003	5.4100e-003	2.0000e-005	1.3900e-003	2.0000e-005	1.4100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	1.9527	1.9527	8.0000e-005	0.0000	1.9547

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					2.5700e-003	0.0000	2.5700e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	0.0317	0.3144	0.2157	3.9000e-004	2.5700e-003	0.0155	0.0181	3.9000e-004	0.0144	0.0148	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400

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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	9.0000e-005	3.0900e-003	5.6000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8793	0.8793	4.0000e-005	0.0000	0.8802
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	5.3000e-004	4.8500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0734	1.0734	4.0000e-005	0.0000	1.0744
Total	6.9000e-004	3.6200e-003	5.4100e-003	2.0000e-005	1.3900e-003	2.0000e-005	1.4100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	1.9527	1.9527	8.0000e-005	0.0000	1.9547

3.3 Trenching/Utilities - 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					0.4065	0.0000	0.4065	0.2234	0.0000	0.2234	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0875	0.9112	0.4760	8.6000e-004		0.0460	0.0460		0.0423	0.0423	0.0000	75.2304	75.2304	0.0243	0.0000	75.8386
Total	0.0875	0.9112	0.4760	8.6000e-004	0.4065	0.0460	0.4525	0.2234	0.0423	0.2658	0.0000	75.2304	75.2304	0.0243	0.0000	75.8386

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3.3 Trenching/Utilities - 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	1.6300e-003	1.4300e-003	0.0131	3.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.8982	2.8982	1.1000e-004	0.0000	2.9010
Total	1.6300e-003	1.4300e-003	0.0131	3.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.8982	2.8982	1.1000e-004	0.0000	2.9010

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					0.4065	0.0000	0.4065	0.2234	0.0000	0.2234	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0875	0.9112	0.4760	8.6000e-004		0.0460	0.0460		0.0423	0.0423	0.0000	75.2303	75.2303	0.0243	0.0000	75.8386
Total	0.0875	0.9112	0.4760	8.6000e-004	0.4065	0.0460	0.4525	0.2234	0.0423	0.2658	0.0000	75.2303	75.2303	0.0243	0.0000	75.8386

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3.3 Trenching/Utilities - 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	1.6300e-003	1.4300e-003	0.0131	3.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.8982	2.8982	1.1000e-004	0.0000	2.9010
Total	1.6300e-003	1.4300e-003	0.0131	3.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.8982	2.8982	1.1000e-004	0.0000	2.9010

3.3 Trenching/Utilities - 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					
Fugitive Dust					0.3794	0.0000	0.3794	0.2085	0.0000	0.2085	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0666	0.6948	0.4137	8.0000e-004		0.0339	0.0339		0.0312	0.0312	0.0000	70.2227	70.2227	0.0227	0.0000	70.7905
Total	0.0666	0.6948	0.4137	8.0000e-004	0.3794	0.0339	0.4133	0.2085	0.0312	0.2397	0.0000	70.2227	70.2227	0.0227	0.0000	70.7905

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3.3 Trenching/Utilities - 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	0.0000	0.0000	0.0000	0.0000	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	1.4100e-003	1.2000e-003	0.0112	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.6096	2.6096	9.0000e-005	0.0000	2.6120
Total	1.4100e-003	1.2000e-003	0.0112	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.6096	2.6096	9.0000e-005	0.0000	2.6120

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					0.3794	0.0000	0.3794	0.2085	0.0000	0.2085	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0666	0.6948	0.4137	8.0000e-004		0.0339	0.0339		0.0312	0.0312	0.0000	70.2226	70.2226	0.0227	0.0000	70.7904
Total	0.0666	0.6948	0.4137	8.0000e-004	0.3794	0.0339	0.4133	0.2085	0.0312	0.2397	0.0000	70.2226	70.2226	0.0227	0.0000	70.7904

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3.3 Trenching/Utilities - 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	0.0000	0.0000	0.0000	0.0000	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	1.4100e-003	1.2000e-003	0.0112	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.6096	2.6096	9.0000e-005	0.0000	2.6120
Total	1.4100e-003	1.2000e-003	0.0112	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.6096	2.6096	9.0000e-005	0.0000	2.6120

3.4 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					0.1026	0.0000	0.1026	0.0550	0.0000	0.0550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0692	0.7656	0.5095	1.0200e-003		0.0328	0.0328		0.0301	0.0301	0.0000	89.9167	89.9167	0.0291	0.0000	90.6437
Total	0.0692	0.7656	0.5095	1.0200e-003	0.1026	0.0328	0.1353	0.0550	0.0301	0.0851	0.0000	89.9167	89.9167	0.0291	0.0000	90.6437

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3.4 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	3.4000e-003	0.1176	0.0215	3.5000e-004	7.4400e-003	4.4000e-004	7.8700e-003	2.0400e-003	4.2000e-004	2.4600e-003	0.0000	33.4526	33.4526	1.3500e-003	0.0000	33.4863
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	1.3200e-003	1.1700e-003	0.0107	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3615	2.3615	9.0000e-005	0.0000	2.3638
Total	4.7200e-003	0.1187	0.0321	3.8000e-004	0.0101	4.6000e-004	0.0105	2.7400e-003	4.4000e-004	3.1800e-003	0.0000	35.8141	35.8141	1.4400e-003	0.0000	35.8501

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					0.1026	0.0000	0.1026	0.0550	0.0000	0.0550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0692	0.7656	0.5095	1.0200e-003		0.0328	0.0328		0.0301	0.0301	0.0000	89.9166	89.9166	0.0291	0.0000	90.6436
Total	0.0692	0.7656	0.5095	1.0200e-003	0.1026	0.0328	0.1353	0.0550	0.0301	0.0851	0.0000	89.9166	89.9166	0.0291	0.0000	90.6436

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3.4 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	3.4000e-003	0.1176	0.0215	3.5000e-004	7.4400e-003	4.4000e-004	7.8700e-003	2.0400e-003	4.2000e-004	2.4600e-003	0.0000	33.4526	33.4526	1.3500e-003	0.0000	33.4863
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	1.3200e-003	1.1700e-003	0.0107	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3615	2.3615	9.0000e-005	0.0000	2.3638
Total	4.7200e-003	0.1187	0.0321	3.8000e-004	0.0101	4.6000e-004	0.0105	2.7400e-003	4.4000e-004	3.1800e-003	0.0000	35.8141	35.8141	1.4400e-003	0.0000	35.8501

3.5 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	0.0124	0.1133	0.1077	1.7000e-004		6.2300e-003	6.2300e-003		5.8600e-003	5.8600e-003	0.0000	15.0564	15.0564	3.6300e-003	0.0000	15.1472
Total	0.0124	0.1133	0.1077	1.7000e-004		6.2300e-003	6.2300e-003		5.8600e-003	5.8600e-003	0.0000	15.0564	15.0564	3.6300e-003	0.0000	15.1472

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3.5 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	1.7800e-003	0.0549	0.0133	1.4000e-004	3.1700e-003	1.7000e-004	3.3400e-003	9.2000e-004	1.6000e-004	1.0800e-003	0.0000	13.0275	13.0275	6.9000e-004	0.0000	13.0447
Worker	4.5100e-003	3.9800e-003	0.0364	9.0000e-005	8.9500e-003	7.0000e-005	9.0200e-003	2.3800e-003	7.0000e-005	2.4500e-003	0.0000	8.0470	8.0470	3.1000e-004	0.0000	8.0547
Total	6.2900e-003	0.0588	0.0497	2.3000e-004	0.0121	2.4000e-004	0.0124	3.3000e-003	2.3000e-004	3.5300e-003	0.0000	21.0745	21.0745	1.0000e-003	0.0000	21.0994

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	0.0124	0.1133	0.1077	1.7000e-004		6.2300e-003	6.2300e-003		5.8600e-003	5.8600e-003	0.0000	15.0564	15.0564	3.6300e-003	0.0000	15.1472
Total	0.0124	0.1133	0.1077	1.7000e-004		6.2300e-003	6.2300e-003		5.8600e-003	5.8600e-003	0.0000	15.0564	15.0564	3.6300e-003	0.0000	15.1472

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3.5 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	1.7800e-003	0.0549	0.0133	1.4000e-004	3.1700e-003	1.7000e-004	3.3400e-003	9.2000e-004	1.6000e-004	1.0800e-003	0.0000	13.0275	13.0275	6.9000e-004	0.0000	13.0447
Worker	4.5100e-003	3.9800e-003	0.0364	9.0000e-005	8.9500e-003	7.0000e-005	9.0200e-003	2.3800e-003	7.0000e-005	2.4500e-003	0.0000	8.0470	8.0470	3.1000e-004	0.0000	8.0547
Total	6.2900e-003	0.0588	0.0497	2.3000e-004	0.0121	2.4000e-004	0.0124	3.3000e-003	2.3000e-004	3.5300e-003	0.0000	21.0745	21.0745	1.0000e-003	0.0000	21.0994

3.5 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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471

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3.5 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	0.0326	1.0376	0.2413	2.7100e-003	0.0635	2.9000e-003	0.0664	0.0183	2.7700e-003	0.0211	0.0000	258.1926	258.1926	0.0134	0.0000	258.5272
Worker	0.0839	0.0713	0.6635	1.7200e-003	0.1789	1.4400e-003	0.1804	0.0476	1.3300e-003	0.0489	0.0000	155.2660	155.2660	5.5300e-003	0.0000	155.4043
Total	0.1165	1.1089	0.9048	4.4300e-003	0.2424	4.3400e-003	0.2467	0.0659	4.1000e-003	0.0700	0.0000	413.4586	413.4586	0.0189	0.0000	413.9315

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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467

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3.5 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	0.0326	1.0376	0.2413	2.7100e-003	0.0635	2.9000e-003	0.0664	0.0183	2.7700e-003	0.0211	0.0000	258.1926	258.1926	0.0134	0.0000	258.5272
Worker	0.0839	0.0713	0.6635	1.7200e-003	0.1789	1.4400e-003	0.1804	0.0476	1.3300e-003	0.0489	0.0000	155.2660	155.2660	5.5300e-003	0.0000	155.4043
Total	0.1165	1.1089	0.9048	4.4300e-003	0.2424	4.3400e-003	0.2467	0.0659	4.1000e-003	0.0700	0.0000	413.4586	413.4586	0.0189	0.0000	413.9315

3.5 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	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6760	99.6760	0.0237	0.0000	100.2688
Total	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6760	99.6760	0.0237	0.0000	100.2688

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3.5 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	8.1100e-003	0.2824	0.0681	8.8000e-004	0.0210	4.1000e-004	0.0214	6.0700e-003	3.9000e-004	6.4600e-003	0.0000	83.8877	83.8877	3.4300e-003	0.0000	83.9734
Worker	0.0258	0.0211	0.2000	5.5000e-004	0.0592	4.6000e-004	0.0596	0.0157	4.3000e-004	0.0162	0.0000	49.4511	49.4511	1.6300e-003	0.0000	49.4919
Total	0.0339	0.3035	0.2681	1.4300e-003	0.0802	8.7000e-004	0.0810	0.0218	8.2000e-004	0.0226	0.0000	133.3388	133.3388	5.0600e-003	0.0000	133.4653

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	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6759	99.6759	0.0237	0.0000	100.2687
Total	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6759	99.6759	0.0237	0.0000	100.2687

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3.5 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	8.1100e-003	0.2824	0.0681	8.8000e-004	0.0210	4.1000e-004	0.0214	6.0700e-003	3.9000e-004	6.4600e-003	0.0000	83.8877	83.8877	3.4300e-003	0.0000	83.9734
Worker	0.0258	0.0211	0.2000	5.5000e-004	0.0592	4.6000e-004	0.0596	0.0157	4.3000e-004	0.0162	0.0000	49.4511	49.4511	1.6300e-003	0.0000	49.4919
Total	0.0339	0.3035	0.2681	1.4300e-003	0.0802	8.7000e-004	0.0810	0.0218	8.2000e-004	0.0226	0.0000	133.3388	133.3388	5.0600e-003	0.0000	133.4653

3.6 Paving - 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	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948

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3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.4000e-004	2.2100e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5178	0.5178	2.0000e-005	0.0000	0.5182
Total	2.8000e-004	2.4000e-004	2.2100e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5178	0.5178	2.0000e-005	0.0000	0.5182

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947

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3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.4000e-004	2.2100e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5178	0.5178	2.0000e-005	0.0000	0.5182
Total	2.8000e-004	2.4000e-004	2.2100e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5178	0.5178	2.0000e-005	0.0000	0.5182

3.7 Paving II - 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	5.6800e-003	0.0561	0.0802	1.3000e-004		2.8100e-003	2.8100e-003		2.5800e-003	2.5800e-003	0.0000	11.0148	11.0148	3.5600e-003	0.0000	11.1038
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6800e-003	0.0561	0.0802	1.3000e-004		2.8100e-003	2.8100e-003		2.5800e-003	2.5800e-003	0.0000	11.0148	11.0148	3.5600e-003	0.0000	11.1038

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3.7 Paving II - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.3000e-004	2.2200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5484	0.5484	2.0000e-005	0.0000	0.5489
Total	2.9000e-004	2.3000e-004	2.2200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5484	0.5484	2.0000e-005	0.0000	0.5489

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6800e-003	0.0561	0.0802	1.3000e-004		2.8100e-003	2.8100e-003		2.5800e-003	2.5800e-003	0.0000	11.0148	11.0148	3.5600e-003	0.0000	11.1038
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6800e-003	0.0561	0.0802	1.3000e-004		2.8100e-003	2.8100e-003		2.5800e-003	2.5800e-003	0.0000	11.0148	11.0148	3.5600e-003	0.0000	11.1038

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3.7 Paving II - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.3000e-004	2.2200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5484	0.5484	2.0000e-005	0.0000	0.5489
Total	2.9000e-004	2.3000e-004	2.2200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5484	0.5484	2.0000e-005	0.0000	0.5489

3.8 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5885					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.5914	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.8 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.8200e-003	1.4900e-003	0.0141	4.0000e-005	4.1800e-003	3.0000e-005	4.2100e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.4900	3.4900	1.2000e-004	0.0000	3.4928
Total	1.8200e-003	1.4900e-003	0.0141	4.0000e-005	4.1800e-003	3.0000e-005	4.2100e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.4900	3.4900	1.2000e-004	0.0000	3.4928

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5885					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.5914	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.8 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.8200e-003	1.4900e-003	0.0141	4.0000e-005	4.1800e-003	3.0000e-005	4.2100e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.4900	3.4900	1.2000e-004	0.0000	3.4928
Total	1.8200e-003	1.4900e-003	0.0141	4.0000e-005	4.1800e-003	3.0000e-005	4.2100e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.4900	3.4900	1.2000e-004	0.0000	3.4928

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Medical Office Building	0.00	0.00	0.00	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.569571	0.024470	0.206145	0.106238	0.013217	0.004041	0.019725	0.043623	0.003075	0.001900	0.006327	0.001084	0.000583
Medical Office Building	0.569571	0.024470	0.206145	0.106238	0.013217	0.004041	0.019725	0.043623	0.003075	0.001900	0.006327	0.001084	0.000583

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.1609	3.1609	0.0000	0.0000	3.1609
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.1609	3.1609	0.0000	0.0000	3.1609
NaturalGas Mitigated	0.0164	0.1493	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.5793	162.5793	3.1200e-003	2.9800e-003	163.5454
NaturalGas Unmitigated	0.0164	0.1493	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.5793	162.5793	3.1200e-003	2.9800e-003	163.5454

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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					
Enclosed 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
Medical Office Building	3.04662e+006	0.0164	0.1493	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.5793	162.5793	3.1200e-003	2.9800e-003	163.5454
Total		0.0164	0.1493	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.5793	162.5793	3.1200e-003	2.9800e-003	163.5454

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					
Enclosed 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
Medical Office Building	3.04662e+006	0.0164	0.1493	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.5793	162.5793	3.1200e-003	2.9800e-003	163.5454
Total		0.0164	0.1493	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.5793	162.5793	3.1200e-003	2.9800e-003	163.5454

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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			
Enclosed Parking with Elevator	1.71112e+006	1.5523	0.0000	0.0000	1.5523
Medical Office Building	1.77312e+006	1.6086	0.0000	0.0000	1.6086
Total		3.1609	0.0000	0.0000	3.1609

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.71112e+006	1.5523	0.0000	0.0000	1.5523
Medical Office Building	1.77312e+006	1.6086	0.0000	0.0000	1.6086
Total		3.1609	0.0000	0.0000	3.1609

6.0 Area Detail

6.1 Mitigation Measures Area

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Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.6943	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0221	0.0221	6.0000e-005	0.0000	0.0235
Unmitigated	0.6943	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0221	0.0221	6.0000e-005	0.0000	0.0235

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	0.0589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6344					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0300e-003	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0221	0.0221	6.0000e-005	0.0000	0.0235
Total	0.6943	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0221	0.0221	6.0000e-005	0.0000	0.0235

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6344					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0300e-003	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0221	0.0221	6.0000e-005	0.0000	0.0235
Total	0.6943	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0221	0.0221	6.0000e-005	0.0000	0.0235

7.0 Water Detail

7.1 Mitigation Measures Water

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.1866	0.5234	0.0124	21.9533
Unmitigated	5.1866	0.5234	0.0124	21.9533

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	16.0615 / 3.82417	5.1866	0.5234	0.0124	21.9533
Total		5.1866	0.5234	0.0124	21.9533

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	16.0615 / 3.82417	5.1866	0.5234	0.0124	21.9533
Total		5.1866	0.5234	0.0124	21.9533

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	175.3842	10.3649	0.0000	434.5069
Unmitigated	175.3842	10.3649	0.0000	434.5069

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	864	175.3842	10.3649	0.0000	434.5069
Total		175.3842	10.3649	0.0000	434.5069

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	864	175.3842	10.3649	0.0000	434.5069
Total		175.3842	10.3649	0.0000	434.5069

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

Santa Cruz County Medical Office Building
Monterey Bay Unified APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	160.00	1000sqft	3.67	157,611.00	0
Enclosed Parking with Elevator	730.00	Space	6.57	292,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	53
Climate Zone	5			Operational Year	2024
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	2	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

Project Characteristics - Monterey Bay Community Power Emission Factor

Land Use - SF for MOB from plans.

Construction Phase - Combo of defaults and applicant provided.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - f

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - assumed 5,115 based on size of sheds and workshop

Grading - Applicant provided.

Architectural Coating - MBARD Rule 426, no exterior coating per applicant info0

Vehicle Trips - Per Kittelson TIA project would reduce overall trips and result in a net decrease in VMT

Area Coating - MABRD Rule 426

Energy Use - T24 Reductions

Water And Wastewater - 2016 T24 water use reductions

Solid Waste - SC County has reached 75% waste diversion, landfill solid waste reduced by 50% as compared to default rates

Construction Off-road Equipment Mitigation - All equipment would be Tier 4 per applicant info

Mobile Land Use Mitigation -

Area Mitigation - MBARD Rule 426

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	78,806.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	100.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

tblAreaCoating	Area_EF_Nonresidential_Exterior	150	0
tblAreaCoating	Area_EF_Nonresidential_Interior	150	100
tblAreaCoating	Area_EF_Parking	150	100
tblAreaCoating	Area_Nonresidential_Exterior	78806	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	0	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	359.00
tblConstructionPhase	NumDays	30.00	33.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	10.00	87.00
tblEnergyUse	T24E	4.10	2.87

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

tblGrading	AcresOfGrading	82.50	5.00
tblGrading	MaterialImported	0.00	7,000.00
tblLandUse	LandUseSquareFeet	160,000.00	157,611.00
tblProjectCharacteristics	CO2IntensityFactor	0	2
tblSolidWaste	SolidWasteGenerationRate	1,728.00	864.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblWater	IndoorWaterUseRate	20,076,886.01	16,061,509.00

2.0 Emissions Summary

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.6705	125.8078	78.9254	0.1874	26.9796	5.6120	32.0334	13.9942	5.1779	18.7280	0.0000	18,503.2340	18,503.2340	4.2970	0.0000	18,603.6280
2022	6.9964	68.3074	58.7558	0.1256	20.2595	3.0245	23.2840	10.5238	2.8002	13.3240	0.0000	12,327.3095	12,327.3095	2.6848	0.0000	12,394.4304
2023	39.5470	31.5634	37.6350	0.0851	2.0454	1.2310	3.2765	0.5539	1.1476	1.7015	0.0000	8,401.5121	8,401.5121	1.4535	0.0000	8,437.8485
Maximum	39.5470	125.8078	78.9254	0.1874	26.9796	5.6120	32.0334	13.9942	5.1779	18.7280	0.0000	18,503.2340	18,503.2340	4.2970	0.0000	18,603.6280

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	11.6705	125.8078	78.9254	0.1874	26.9796	5.6120	32.0334	13.9942	5.1779	18.7280	0.0000	18,503.2340	18,503.2340	4.2970	0.0000	18,603.6280
2022	6.9964	68.3074	58.7558	0.1256	20.2595	3.0245	23.2840	10.5238	2.8002	13.3240	0.0000	12,327.3095	12,327.3095	2.6848	0.0000	12,394.4304
2023	39.5470	31.5634	37.6350	0.0851	2.0454	1.2310	3.2765	0.5539	1.1476	1.7015	0.0000	8,401.5121	8,401.5121	1.4535	0.0000	8,437.8485
Maximum	39.5470	125.8078	78.9254	0.1874	26.9796	5.6120	32.0334	13.9942	5.1779	18.7280	0.0000	18,503.2340	18,503.2340	4.2970	0.0000	18,603.6280

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	3.8071	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Energy	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
Mobile	0.0000	0.0000	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	3.8972	0.8191	0.7781	4.9200e-003	0.0000	0.0625	0.0625	0.0000	0.0625	0.0625		982.1837	982.1837	0.0193	0.0180	988.0319

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	3.8071	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Energy	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
Mobile	0.0000	0.0000	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	3.8972	0.8191	0.7781	4.9200e-003	0.0000	0.0625	0.0625	0.0000	0.0625	0.0625		982.1837	982.1837	0.0193	0.0180	988.0319

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2021	11/26/2021	5	20	
2	Trenching/Utilities	Site Preparation	11/1/2021	3/1/2022	5	87	
3	Grading	Grading	11/1/2021	12/15/2021	5	33	
4	Building Construction	Building Construction	12/15/2021	5/1/2023	5	359	
5	Paving	Paving	1/2/2022	1/16/2022	5	10	
6	Paving II	Paving	4/17/2023	5/1/2023	5	11	
7	Architectural Coating	Architectural Coating	5/2/2023	6/12/2023	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 5

Acres of Paving: 6.57

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 236,417; Non-Residential Outdoor: 0; Striped Parking Area: 17,520 (Architectural Coating – sqft)

OffRoad Equipment

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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
Trenching/Utilities	Rubber Tired Dozers	3	8.00	247	0.40
Trenching/Utilities	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving II	Pavers	2	8.00	130	0.42
Paving II	Paving Equipment	2	8.00	132	0.36
Paving II	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	23.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Utilities	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	875.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	173.00	74.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving II	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	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

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					0.2565	0.0000	0.2565	0.0389	0.0000	0.0389			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	0.2565	1.5513	1.8079	0.0389	1.4411	1.4799		3,747.9449	3,747.9449	1.0549		3,774.3174

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	8.8100e-003	0.3037	0.0540	9.3000e-004	0.0201	1.1400e-003	0.0212	5.5100e-003	1.0900e-003	6.6000e-003		97.8226	97.8226	3.7600e-003		97.9166
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	0.0606	0.0465	0.5094	1.2600e-003	0.1232	9.9000e-004	0.1242	0.0327	9.2000e-004	0.0336		125.3214	125.3214	4.7800e-003		125.4408
Total	0.0694	0.3502	0.5635	2.1900e-003	0.1433	2.1300e-003	0.1455	0.0382	2.0100e-003	0.0402		223.1440	223.1440	8.5400e-003		223.3574

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					0.2565	0.0000	0.2565	0.0389	0.0000	0.0389			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.2565	1.5513	1.8079	0.0389	1.4411	1.4799	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	8.8100e-003	0.3037	0.0540	9.3000e-004	0.0201	1.1400e-003	0.0212	5.5100e-003	1.0900e-003	6.6000e-003		97.8226	97.8226	3.7600e-003		97.9166
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	0.0606	0.0465	0.5094	1.2600e-003	0.1232	9.9000e-004	0.1242	0.0327	9.2000e-004	0.0336		125.3214	125.3214	4.7800e-003		125.4408
Total	0.0694	0.3502	0.5635	2.1900e-003	0.1433	2.1300e-003	0.1455	0.0382	2.0100e-003	0.0402		223.1440	223.1440	8.5400e-003		223.3574

3.3 Trenching/Utilities - 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		3,685.6569	3,685.6569	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		3,685.6569	3,685.6569	1.1920		3,715.4573

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.3 Trenching/Utilities - 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	0.0727	0.0558	0.6113	1.5100e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		150.3856	150.3856	5.7300e-003		150.5290
Total	0.0727	0.0558	0.6113	1.5100e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		150.3856	150.3856	5.7300e-003		150.5290

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					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	0.0000	3,685.6569	3,685.6569	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	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.3 Trenching/Utilities - 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	0.0727	0.0558	0.6113	1.5100e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		150.3856	150.3856	5.7300e-003		150.5290
Total	0.0727	0.0558	0.6113	1.5100e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		150.3856	150.3856	5.7300e-003		150.5290

3.3 Trenching/Utilities - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.3 Trenching/Utilities - 2022
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0500	0.5586	1.4600e-003	0.1479	1.1500e-003	0.1490	0.0392	1.0600e-003	0.0403		145.0845	145.0845	5.1300e-003		145.2127
Total	0.0675	0.0500	0.5586	1.4600e-003	0.1479	1.1500e-003	0.1490	0.0392	1.0600e-003	0.0403		145.0845	145.0845	5.1300e-003		145.2127

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.3 Trenching/Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0500	0.5586	1.4600e-003	0.1479	1.1500e-003	0.1490	0.0392	1.0600e-003	0.0403		145.0845	145.0845	5.1300e-003		145.2127
Total	0.0675	0.0500	0.5586	1.4600e-003	0.1479	1.1500e-003	0.1490	0.0392	1.0600e-003	0.0403		145.0845	145.0845	5.1300e-003		145.2127

3.4 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					6.2156	0.0000	6.2156	3.3326	0.0000	3.3326			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.2156	1.9853	8.2009	3.3326	1.8265	5.1591		6,007.0434	6,007.0434	1.9428		6,055.6134

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.4 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	0.2031	7.0022	1.2457	0.0214	0.4634	0.0263	0.4897	0.1270	0.0251	0.1521		2,255.4625	2,255.4625	0.0866		2,257.6280
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	0.0808	0.0620	0.6792	1.6800e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		167.0952	167.0952	6.3700e-003		167.2545
Total	0.2839	7.0642	1.9249	0.0231	0.6277	0.0276	0.6553	0.1706	0.0263	0.1969		2,422.5576	2,422.5576	0.0930		2,424.8824

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					6.2156	0.0000	6.2156	3.3326	0.0000	3.3326			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.2156	1.9853	8.2009	3.3326	1.8265	5.1591	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.4 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	0.2031	7.0022	1.2457	0.0214	0.4634	0.0263	0.4897	0.1270	0.0251	0.1521		2,255.4625	2,255.4625	0.0866		2,257.6280
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	0.0808	0.0620	0.6792	1.6800e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		167.0952	167.0952	6.3700e-003		167.2545
Total	0.2839	7.0642	1.9249	0.0231	0.6277	0.0276	0.6553	0.1706	0.0263	0.1969		2,422.5576	2,422.5576	0.0930		2,424.8824

3.5 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

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.5 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	0.2662	8.3580	1.9060	0.0213	0.5010	0.0251	0.5262	0.1442	0.0240	0.1683		2,238.8535	2,238.8535	0.1111		2,241.6306
Worker	0.6990	0.5363	5.8753	0.0145	1.4212	0.0115	1.4326	0.3770	0.0106	0.3875		1,445.3730	1,445.3730	0.0551		1,446.7510
Total	0.9652	8.8943	7.7813	0.0358	1.9222	0.0366	1.9588	0.5212	0.0346	0.5558		3,684.2265	3,684.2265	0.1662		3,688.3816

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	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	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.5 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	0.2662	8.3580	1.9060	0.0213	0.5010	0.0251	0.5262	0.1442	0.0240	0.1683		2,238.8535	2,238.8535	0.1111		2,241.6306
Worker	0.6990	0.5363	5.8753	0.0145	1.4212	0.0115	1.4326	0.3770	0.0106	0.3875		1,445.3730	1,445.3730	0.0551		1,446.7510
Total	0.9652	8.8943	7.7813	0.0358	1.9222	0.0366	1.9588	0.5212	0.0346	0.5558		3,684.2265	3,684.2265	0.1662		3,688.3816

3.5 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

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.5 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	0.2444	7.9115	1.7215	0.0211	0.5010	0.0218	0.5229	0.1442	0.0209	0.1651		2,218.8422	2,218.8422	0.1081		2,221.5435
Worker	0.6491	0.4803	5.3686	0.0140	1.4212	0.0111	1.4322	0.3770	0.0102	0.3872		1,394.4233	1,394.4233	0.0493		1,395.6555
Total	0.8934	8.3918	7.0901	0.0351	1.9222	0.0329	1.9551	0.5212	0.0311	0.5523		3,613.2655	3,613.2655	0.1573		3,617.1990

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	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	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.5 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	0.2444	7.9115	1.7215	0.0211	0.5010	0.0218	0.5229	0.1442	0.0209	0.1651		2,218.8422	2,218.8422	0.1081		2,221.5435
Worker	0.6491	0.4803	5.3686	0.0140	1.4212	0.0111	1.4322	0.3770	0.0102	0.3872		1,394.4233	1,394.4233	0.0493		1,395.6555
Total	0.8934	8.3918	7.0901	0.0351	1.9222	0.0329	1.9551	0.5212	0.0311	0.5523		3,613.2655	3,613.2655	0.1573		3,617.1990

3.5 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

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.5 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	0.1834	6.5190	1.4766	0.0208	0.5011	9.4500e-003	0.5105	0.1442	9.0400e-003	0.1533		2,179.6292	2,179.6292	0.0838		2,181.7235
Worker	0.6035	0.4305	4.9049	0.0135	1.4212	0.0107	1.4319	0.3770	9.8900e-003	0.3868		1,342.6722	1,342.6722	0.0440		1,343.7732
Total	0.7869	6.9496	6.3815	0.0342	1.9222	0.0202	1.9424	0.5212	0.0189	0.5401		3,522.3014	3,522.3014	0.1278		3,525.4967

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	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	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.5 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	0.1834	6.5190	1.4766	0.0208	0.5011	9.4500e-003	0.5105	0.1442	9.0400e-003	0.1533		2,179.6292	2,179.6292	0.0838		2,181.7235
Worker	0.6035	0.4305	4.9049	0.0135	1.4212	0.0107	1.4319	0.3770	9.8900e-003	0.3868		1,342.6722	1,342.6722	0.0440		1,343.7732
Total	0.7869	6.9496	6.3815	0.0342	1.9222	0.0202	1.9424	0.5212	0.0189	0.5401		3,522.3014	3,522.3014	0.1278		3,525.4967

3.6 Paving - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0563	0.0416	0.4655	1.2100e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		120.9038	120.9038	4.2700e-003		121.0106
Total	0.0563	0.0416	0.4655	1.2100e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		120.9038	120.9038	4.2700e-003		121.0106

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0563	0.0416	0.4655	1.2100e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		120.9038	120.9038	4.2700e-003		121.0106
Total	0.0563	0.0416	0.4655	1.2100e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		120.9038	120.9038	4.2700e-003		121.0106

3.7 Paving II - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.7 Paving II - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0523	0.0373	0.4253	1.1700e-003	0.1232	9.3000e-004	0.1242	0.0327	8.6000e-004	0.0335		116.4167	116.4167	3.8200e-003		116.5121
Total	0.0523	0.0373	0.4253	1.1700e-003	0.1232	9.3000e-004	0.1242	0.0327	8.6000e-004	0.0335		116.4167	116.4167	3.8200e-003		116.5121

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.7 Paving II - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0523	0.0373	0.4253	1.1700e-003	0.1232	9.3000e-004	0.1242	0.0327	8.6000e-004	0.0335		116.4167	116.4167	3.8200e-003		116.5121
Total	0.0523	0.0373	0.4253	1.1700e-003	0.1232	9.3000e-004	0.1242	0.0327	8.6000e-004	0.0335		116.4167	116.4167	3.8200e-003		116.5121

3.8 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	39.4249	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.8 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1221	0.0871	0.9923	2.7300e-003	0.2875	2.1700e-003	0.2897	0.0763	2.0000e-003	0.0783		271.6389	271.6389	8.9100e-003		271.8616
Total	0.1221	0.0871	0.9923	2.7300e-003	0.2875	2.1700e-003	0.2897	0.0763	2.0000e-003	0.0783		271.6389	271.6389	8.9100e-003		271.8616

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	39.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	39.4249	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

3.8 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1221	0.0871	0.9923	2.7300e-003	0.2875	2.1700e-003	0.2897	0.0763	2.0000e-003	0.0783		271.6389	271.6389	8.9100e-003		271.8616
Total	0.1221	0.0871	0.9923	2.7300e-003	0.2875	2.1700e-003	0.2897	0.0763	2.0000e-003	0.0783		271.6389	271.6389	8.9100e-003		271.8616

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Medical Office Building	0.00	0.00	0.00	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.552293	0.026858	0.203057	0.118966	0.019018	0.004857	0.019364	0.041479	0.003068	0.002366	0.006793	0.001094	0.000786
Medical Office Building	0.552293	0.026858	0.203057	0.118966	0.019018	0.004857	0.019364	0.041479	0.003068	0.002366	0.006793	0.001094	0.000786

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
NaturalGas Unmitigated	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed 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
Medical Office Building	8346.91	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
Total		0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244

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					
Enclosed 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
Medical Office Building	8.34691	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
Total		0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244

6.0 Area Detail

6.1 Mitigation Measures Area

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	3.8071	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	3.8071	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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	0.3225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3800e-003	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	3.8072	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	0.3225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3800e-003	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	3.8072	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

Santa Cruz County Medical Office Building
Monterey Bay Unified APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	160.00	1000sqft	3.67	157,611.00	0
Enclosed Parking with Elevator	730.00	Space	6.57	292,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	53
Climate Zone	5			Operational Year	2024
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	2	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

Project Characteristics - Monterey Bay Community Power Emission Factor

Land Use - SF for MOB from plans.

Construction Phase - Combo of defaults and applicant provided.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - f

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - assumed 5,115 based on size of sheds and workshop

Grading - Applicant provided.

Architectural Coating - MBARD Rule 426, no exterior coating per applicant info0

Vehicle Trips - Per Kittelson TIA project would reduce overall trips and result in a net decrease in VMT

Area Coating - MABRD Rule 426

Energy Use - T24 Reductions

Water And Wastewater - 2016 T24 water use reductions

Solid Waste - SC County has reached 75% waste diversion, landfill solid waste reduced by 50% as compared to default rates

Construction Off-road Equipment Mitigation - All equipment would be Tier 4 per applicant info

Mobile Land Use Mitigation -

Area Mitigation - MBARD Rule 426

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	78,806.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	100.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

tblAreaCoating	Area_EF_Nonresidential_Exterior	150	0
tblAreaCoating	Area_EF_Nonresidential_Interior	150	100
tblAreaCoating	Area_EF_Parking	150	100
tblAreaCoating	Area_Nonresidential_Exterior	78806	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	0	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	359.00
tblConstructionPhase	NumDays	30.00	33.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	10.00	87.00
tblEnergyUse	T24E	4.10	2.87

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

tblGrading	AcresOfGrading	82.50	5.00
tblGrading	MaterialImported	0.00	7,000.00
tblLandUse	LandUseSquareFeet	160,000.00	157,611.00
tblProjectCharacteristics	CO2IntensityFactor	0	2
tblSolidWaste	SolidWasteGenerationRate	1,728.00	864.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblWater	IndoorWaterUseRate	20,076,886.01	16,061,509.00

2.0 Emissions Summary

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.6983	125.9786	79.3188	0.1852	26.9796	5.6128	32.0353	13.9942	5.1787	18.7288	0.0000	18,277.5977	18,277.5977	4.3050	0.0000	18,378.4408
2022	7.0862	68.4874	58.9765	0.1239	20.2595	3.0256	23.2851	10.5238	2.8013	13.3251	0.0000	12,156.9408	12,156.9408	2.6946	0.0000	12,224.3060
2023	39.5588	31.6998	37.7826	0.0836	2.0454	1.2313	3.2768	0.5539	1.1479	1.7018	0.0000	8,244.1905	8,244.1905	1.4605	0.0000	8,280.7037
Maximum	39.5588	125.9786	79.3188	0.1852	26.9796	5.6128	32.0353	13.9942	5.1787	18.7288	0.0000	18,277.5977	18,277.5977	4.3050	0.0000	18,378.4408

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	11.6983	125.9786	79.3188	0.1852	26.9796	5.6128	32.0353	13.9942	5.1787	18.7288	0.0000	18,277.5976	18,277.5976	4.3050	0.0000	18,378.4407
2022	7.0862	68.4874	58.9765	0.1239	20.2595	3.0256	23.2851	10.5238	2.8013	13.3251	0.0000	12,156.9408	12,156.9408	2.6946	0.0000	12,224.3060
2023	39.5588	31.6998	37.7826	0.0836	2.0454	1.2313	3.2768	0.5539	1.1479	1.7018	0.0000	8,244.1905	8,244.1905	1.4605	0.0000	8,280.7037
Maximum	39.5588	125.9786	79.3188	0.1852	26.9796	5.6128	32.0353	13.9942	5.1787	18.7288	0.0000	18,277.5976	18,277.5976	4.3050	0.0000	18,378.4407

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	3.8071	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Energy	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
Mobile	0.0000	0.0000	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	3.8972	0.8191	0.7781	4.9200e-003	0.0000	0.0625	0.0625	0.0000	0.0625	0.0625		982.1837	982.1837	0.0193	0.0180	988.0319

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	3.8071	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Energy	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
Mobile	0.0000	0.0000	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	3.8972	0.8191	0.7781	4.9200e-003	0.0000	0.0625	0.0625	0.0000	0.0625	0.0625		982.1837	982.1837	0.0193	0.0180	988.0319

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2021	11/26/2021	5	20	
2	Trenching/Utilities	Site Preparation	11/1/2021	3/1/2022	5	87	
3	Grading	Grading	11/1/2021	12/15/2021	5	33	
4	Building Construction	Building Construction	12/15/2021	5/1/2023	5	359	
5	Paving	Paving	1/2/2022	1/16/2022	5	10	
6	Paving II	Paving	4/17/2023	5/1/2023	5	11	
7	Architectural Coating	Architectural Coating	5/2/2023	6/12/2023	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 5

Acres of Paving: 6.57

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 236,417; Non-Residential Outdoor: 0; Striped Parking Area: 17,520 (Architectural Coating – sqft)

OffRoad Equipment

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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
Trenching/Utilities	Rubber Tired Dozers	3	8.00	247	0.40
Trenching/Utilities	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving II	Pavers	2	8.00	130	0.42
Paving II	Paving Equipment	2	8.00	132	0.36
Paving II	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	23.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Utilities	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	875.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	173.00	74.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving II	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	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

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					0.2565	0.0000	0.2565	0.0389	0.0000	0.0389			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	0.2565	1.5513	1.8079	0.0389	1.4411	1.4799		3,747.9449	3,747.9449	1.0549		3,774.3174

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	9.1300e-003	0.3091	0.0598	9.1000e-004	0.0201	1.1700e-003	0.0213	5.5100e-003	1.1200e-003	6.6300e-003		95.6949	95.6949	4.1200e-003		95.7979
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	0.0663	0.0584	0.5049	1.1800e-003	0.1232	9.9000e-004	0.1242	0.0327	9.2000e-004	0.0336		117.7696	117.7696	4.5700e-003		117.8839
Total	0.0754	0.3674	0.5647	2.0900e-003	0.1433	2.1600e-003	0.1455	0.0382	2.0400e-003	0.0402		213.4644	213.4644	8.6900e-003		213.6818

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					0.2565	0.0000	0.2565	0.0389	0.0000	0.0389			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.2565	1.5513	1.8079	0.0389	1.4411	1.4799	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	9.1300e-003	0.3091	0.0598	9.1000e-004	0.0201	1.1700e-003	0.0213	5.5100e-003	1.1200e-003	6.6300e-003		95.6949	95.6949	4.1200e-003		95.7979
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	0.0663	0.0584	0.5049	1.1800e-003	0.1232	9.9000e-004	0.1242	0.0327	9.2000e-004	0.0336		117.7696	117.7696	4.5700e-003		117.8839
Total	0.0754	0.3674	0.5647	2.0900e-003	0.1433	2.1600e-003	0.1455	0.0382	2.0400e-003	0.0402		213.4644	213.4644	8.6900e-003		213.6818

3.3 Trenching/Utilities - 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		3,685.6569	3,685.6569	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		3,685.6569	3,685.6569	1.1920		3,715.4573

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.3 Trenching/Utilities - 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	0.0796	0.0701	0.6059	1.4200e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		141.3235	141.3235	5.4900e-003		141.4607
Total	0.0796	0.0701	0.6059	1.4200e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		141.3235	141.3235	5.4900e-003		141.4607

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					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	0.0000	3,685.6569	3,685.6569	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	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.3 Trenching/Utilities - 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	0.0796	0.0701	0.6059	1.4200e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		141.3235	141.3235	5.4900e-003		141.4607
Total	0.0796	0.0701	0.6059	1.4200e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		141.3235	141.3235	5.4900e-003		141.4607

3.3 Trenching/Utilities - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.3 Trenching/Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0739	0.0627	0.5517	1.3700e-003	0.1479	1.1500e-003	0.1490	0.0392	1.0600e-003	0.0403		136.3403	136.3403	4.9000e-003		136.4627
Total	0.0739	0.0627	0.5517	1.3700e-003	0.1479	1.1500e-003	0.1490	0.0392	1.0600e-003	0.0403		136.3403	136.3403	4.9000e-003		136.4627

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.3 Trenching/Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0739	0.0627	0.5517	1.3700e-003	0.1479	1.1500e-003	0.1490	0.0392	1.0600e-003	0.0403		136.3403	136.3403	4.9000e-003		136.4627
Total	0.0739	0.0627	0.5517	1.3700e-003	0.1479	1.1500e-003	0.1490	0.0392	1.0600e-003	0.0403		136.3403	136.3403	4.9000e-003		136.4627

3.4 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					6.2156	0.0000	6.2156	3.3326	0.0000	3.3326			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.2156	1.9853	8.2009	3.3326	1.8265	5.1591		6,007.0434	6,007.0434	1.9428		6,055.6134

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.4 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	0.2104	7.1257	1.3787	0.0209	0.4634	0.0270	0.4904	0.1270	0.0258	0.1528		2,206.4037	2,206.4037	0.0950		2,208.7778
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	0.0884	0.0778	0.6732	1.5800e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		157.0261	157.0261	6.1000e-003		157.1786
Total	0.2988	7.2035	2.0519	0.0225	0.6277	0.0283	0.6561	0.1706	0.0270	0.1976		2,363.4298	2,363.4298	0.1011		2,365.9564

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					6.2156	0.0000	6.2156	3.3326	0.0000	3.3326			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.2156	1.9853	8.2009	3.3326	1.8265	5.1591	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.4 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	0.2104	7.1257	1.3787	0.0209	0.4634	0.0270	0.4904	0.1270	0.0258	0.1528		2,206.4037	2,206.4037	0.0950		2,208.7778
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	0.0884	0.0778	0.6732	1.5800e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		157.0261	157.0261	6.1000e-003		157.1786
Total	0.2988	7.2035	2.0519	0.0225	0.6277	0.0283	0.6561	0.1706	0.0270	0.1976		2,363.4298	2,363.4298	0.1011		2,365.9564

3.5 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

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.5 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	0.2843	8.4062	2.2299	0.0207	0.5010	0.0263	0.5273	0.1442	0.0252	0.1694		2,168.5046	2,168.5046	0.1236		2,171.5940
Worker	0.7645	0.6733	5.8232	0.0137	1.4212	0.0115	1.4326	0.3770	0.0106	0.3875		1,358.2756	1,358.2756	0.0528		1,359.5947
Total	1.0488	9.0795	8.0531	0.0343	1.9222	0.0378	1.9600	0.5212	0.0358	0.5569		3,526.7802	3,526.7802	0.1763		3,531.1886

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	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	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.5 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	0.2843	8.4062	2.2299	0.0207	0.5010	0.0263	0.5273	0.1442	0.0252	0.1694		2,168.5046	2,168.5046	0.1236		2,171.5940
Worker	0.7645	0.6733	5.8232	0.0137	1.4212	0.0115	1.4326	0.3770	0.0106	0.3875		1,358.2756	1,358.2756	0.0528		1,359.5947
Total	1.0488	9.0795	8.0531	0.0343	1.9222	0.0378	1.9600	0.5212	0.0358	0.5569		3,526.7802	3,526.7802	0.1763		3,531.1886

3.5 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

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.5 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	0.2610	7.9455	2.0207	0.0205	0.5010	0.0229	0.5240	0.1442	0.0219	0.1662		2,148.5458	2,148.5458	0.1205		2,151.5579
Worker	0.7105	0.6029	5.3027	0.0132	1.4212	0.0111	1.4322	0.3770	0.0102	0.3872		1,310.3820	1,310.3820	0.0471		1,311.5584
Total	0.9715	8.5484	7.3234	0.0336	1.9222	0.0340	1.9562	0.5212	0.0322	0.5533		3,458.9278	3,458.9278	0.1675		3,463.1162

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	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	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.5 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	0.2610	7.9455	2.0207	0.0205	0.5010	0.0229	0.5240	0.1442	0.0219	0.1662		2,148.5458	2,148.5458	0.1205		2,151.5579
Worker	0.7105	0.6029	5.3027	0.0132	1.4212	0.0111	1.4322	0.3770	0.0102	0.3872		1,310.3820	1,310.3820	0.0471		1,311.5584
Total	0.9715	8.5484	7.3234	0.0336	1.9222	0.0340	1.9562	0.5212	0.0322	0.5533		3,458.9278	3,458.9278	0.1675		3,463.1162

3.5 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

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.5 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	0.1963	6.5362	1.7099	0.0201	0.5011	9.7500e-003	0.5108	0.1442	9.3200e-003	0.1536		2,110.2564	2,110.2564	0.0932		2,112.5860
Worker	0.6614	0.5403	4.8261	0.0127	1.4212	0.0107	1.4319	0.3770	9.8900e-003	0.3868		1,261.7405	1,261.7405	0.0419		1,262.7877
Total	0.8577	7.0764	6.5359	0.0328	1.9222	0.0205	1.9427	0.5212	0.0192	0.5404		3,371.9969	3,371.9969	0.1351		3,375.3738

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	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	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.5 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	0.1963	6.5362	1.7099	0.0201	0.5011	9.7500e-003	0.5108	0.1442	9.3200e-003	0.1536		2,110.2564	2,110.2564	0.0932		2,112.5860
Worker	0.6614	0.5403	4.8261	0.0127	1.4212	0.0107	1.4319	0.3770	9.8900e-003	0.3868		1,261.7405	1,261.7405	0.0419		1,262.7877
Total	0.8577	7.0764	6.5359	0.0328	1.9222	0.0205	1.9427	0.5212	0.0192	0.5404		3,371.9969	3,371.9969	0.1351		3,375.3738

3.6 Paving - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0616	0.0523	0.4598	1.1400e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		113.6169	113.6169	4.0800e-003		113.7189
Total	0.0616	0.0523	0.4598	1.1400e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		113.6169	113.6169	4.0800e-003		113.7189

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0616	0.0523	0.4598	1.1400e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		113.6169	113.6169	4.0800e-003		113.7189
Total	0.0616	0.0523	0.4598	1.1400e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		113.6169	113.6169	4.0800e-003		113.7189

3.7 Paving II - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.7 Paving II - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0574	0.0468	0.4184	1.1000e-003	0.1232	9.3000e-004	0.1242	0.0327	8.6000e-004	0.0335		109.3995	109.3995	3.6300e-003		109.4903
Total	0.0574	0.0468	0.4184	1.1000e-003	0.1232	9.3000e-004	0.1242	0.0327	8.6000e-004	0.0335		109.3995	109.3995	3.6300e-003		109.4903

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.7 Paving II - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0574	0.0468	0.4184	1.1000e-003	0.1232	9.3000e-004	0.1242	0.0327	8.6000e-004	0.0335		109.3995	109.3995	3.6300e-003		109.4903
Total	0.0574	0.0468	0.4184	1.1000e-003	0.1232	9.3000e-004	0.1242	0.0327	8.6000e-004	0.0335		109.3995	109.3995	3.6300e-003		109.4903

3.8 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	39.4249	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.8 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1338	0.1093	0.9764	2.5600e-003	0.2875	2.1700e-003	0.2897	0.0763	2.0000e-003	0.0783		255.2654	255.2654	8.4700e-003		255.4773
Total	0.1338	0.1093	0.9764	2.5600e-003	0.2875	2.1700e-003	0.2897	0.0763	2.0000e-003	0.0783		255.2654	255.2654	8.4700e-003		255.4773

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	39.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	39.4249	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

3.8 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1338	0.1093	0.9764	2.5600e-003	0.2875	2.1700e-003	0.2897	0.0763	2.0000e-003	0.0783		255.2654	255.2654	8.4700e-003		255.4773
Total	0.1338	0.1093	0.9764	2.5600e-003	0.2875	2.1700e-003	0.2897	0.0763	2.0000e-003	0.0783		255.2654	255.2654	8.4700e-003		255.4773

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Medical Office Building	0.00	0.00	0.00	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.552293	0.026858	0.203057	0.118966	0.019018	0.004857	0.019364	0.041479	0.003068	0.002366	0.006793	0.001094	0.000786
Medical Office Building	0.552293	0.026858	0.203057	0.118966	0.019018	0.004857	0.019364	0.041479	0.003068	0.002366	0.006793	0.001094	0.000786

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
NaturalGas Unmitigated	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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					
Enclosed 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
Medical Office Building	8346.91	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
Total		0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244

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					
Enclosed 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
Medical Office Building	8.34691	0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244
Total		0.0900	0.8183	0.6874	4.9100e-003		0.0622	0.0622		0.0622	0.0622		981.9889	981.9889	0.0188	0.0180	987.8244

6.0 Area Detail

6.1 Mitigation Measures Area

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	3.8071	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	3.8071	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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	0.3225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3800e-003	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	3.8072	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD 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	0.3225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3800e-003	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	3.8072	8.2000e-004	0.0907	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Santa Cruz County Medical Office Building - Monterey Bay Unified APCD Air District, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

N2O Operational GHG Emission Mobile Calculations

SC Med. Office Building

Vehicle Population Breakdown*	
164213	Gasoline vehicles
12116	Diesel vehicles
93.1%	Gasoline vehicle %
6.9%	Diesel vehicle %

VMT per Vehicle Type	
8818138	Project VMT (CalEEMod output)
8212228	Gasoline vehicle VMT
605910	Diesel vehicle VMT

Gasoline Vehicles	
93.1%	Gasoline vehicle %
0.8217	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.77	Gasoline vehicle tons per year NOX emissions
0.0508	Tons per year N2O emissions for gasoline vehicles**
0.0461	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
19.50	Diesel average miles per gallon*
0.08205	grams per mile N2O for diesel vehicles
49715.9	grams per year N2O for diesel vehicles
0.0497159	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0958	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
28.5	CO2e emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: EMFAC2017 (v1.0.2) Emissions Inventory Region Type: Air District Region: BAY AREA AQMD Calendar Year: 2030 Season: Annual Vehicle Classification: EMFAC2011 Categories</p> <p>**Methodology source: EMFAC2017 Volume III - Technical Documentation https://www.arb.ca.gov/msei/emfac2011-faq.htm</p> <p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>