

APPENDIX D

GREENHOUSE GAS EMISSIONS DATA WORKSHEETS

Harbor-UCLA Medical Center

Draft EIR

Appendix D, Greenhouse Gas Emissions Data Worksheets

D. 1 Construction Emissions – CalEEMod Output (Annual)

- Phase 1 Construction Emissions
- Phase 2 Construction Emissions
- Phase 3 Construction Emissions
- Phase 4 Construction Emissions
- Phase 5 Construction Emissions
- Phase 6 Construction Emissions
- LA Biomed Construction Emissions

D. 2 Operational Emissions – CalEEMod Output (Annual)

- Existing Operations
- Interim Operations
- Full Build-Out Operations

D.3 Mobile Source Emission Calculations

Appendix D. 1

Construction Emissions – CalEEMod Output (Annual)

- Phase 1 Construction Emissions
- Phase 2 Construction Emissions
- Phase 3 Construction Emissions
- Phase 4 Construction Emissions
- Phase 5 Construction Emissions
- Phase 6 Construction Emissions
- LA Biomed Construction Emissions

Appendix D. 1

Construction Emissions – CalEEMod Output (Annual)

Phase 1 Construction Emissions

Harbor UCLA Master Plan- Phase 1 South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	809.00	Space	7.28	300,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2014
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Demolition -

Grading -

Architectural Coating - Paved Coating Exterior- 6% of the square footage

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	57.00
tblConstructionPhase	NumDays	230.00	250.00

tblConstructionPhase	NumDays	20.00	122.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	20.00	57.00
tblConstructionPhase	PhaseEndDate	4/8/2021	1/19/2021
tblConstructionPhase	PhaseEndDate	8/14/2019	1/19/2021
tblConstructionPhase	PhaseEndDate	8/28/2018	8/29/2018
tblConstructionPhase	PhaseEndDate	4/8/2021	1/19/2021
tblConstructionPhase	PhaseStartDate	1/20/2021	11/1/2020
tblConstructionPhase	PhaseStartDate	8/30/2018	2/5/2020
tblConstructionPhase	PhaseStartDate	5/31/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	1/20/2021	11/1/2020
tblGrading	MaterialExported	0.00	28,851.00
tblGrading	MaterialImported	0.00	37,067.00
tblLandUse	LandUseSquareFeet	323,600.00	300,700.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	358.00	3,369.00
tblTripsAndVMT	HaulingTripNumber	8,240.00	10,986.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	128.00
tblTripsAndVMT	WorkerTripNumber	13.00	499.00

tblTripsAndVMT	WorkerTripNumber	126.00	516.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	25.00	68.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.0356	0.3438	0.3007	5.6000e-004	0.0370	0.0171	0.0540	8.9500e-003	0.0160	0.0250	0.0000	48.7350	48.7350	7.1100e-003	0.0000	48.8844
2018	0.4730	4.6850	4.8064	0.0113	0.6221	0.1858	0.8078	0.2140	0.1732	0.3872	0.0000	952.2067	952.2067	0.0865	0.0000	954.0227
2020	3.0390	1.7708	4.1059	0.0112	0.7327	0.0731	0.8057	0.1953	0.0683	0.2636	0.0000	785.7822	785.7822	0.0613	0.0000	787.0700
2021	0.8206	0.1495	0.2977	7.8000e-004	0.0465	7.2800e-003	0.0537	0.0124	6.7900e-003	0.0192	0.0000	55.3022	55.3022	5.6100e-003	0.0000	55.4200
Total	4.3680	6.9490	9.5107	0.0239	1.4382	0.2832	1.7213	0.4306	0.2643	0.6949	0.0000	1,842.026 1	1,842.0261	0.1605	0.0000	1,845.397 2

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					
2017	0.0100	0.0725	0.2704	5.6000e-004	0.0343	1.3100e-003	0.0356	8.5400e-003	1.2400e-003	9.7900e-003	0.0000	48.7350	48.7350	7.1100e-003	0.0000	48.8844
2018	0.2262	2.0140	4.4853	0.0113	0.4709	0.0344	0.5053	0.1447	0.0320	0.1767	0.0000	952.2064	952.2064	0.0865	0.0000	954.0224
2020	2.9611	0.8680	4.1664	0.0112	0.7327	0.0239	0.7565	0.1953	0.0230	0.2183	0.0000	785.7820	785.7820	0.0613	0.0000	787.0699
2021	0.8115	0.0519	0.3056	7.8000e-004	0.0465	1.4600e-003	0.0479	0.0124	1.4100e-003	0.0138	0.0000	55.3022	55.3022	5.6100e-003	0.0000	55.4200
Total	4.0088	3.0064	9.2276	0.0239	1.2843	0.0610	1.3453	0.3609	0.0576	0.4186	0.0000	1,842.025 5	1,842.0255	0.1605	0.0000	1,845.396 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	8.22	56.74	2.98	0.00	10.70	78.46	21.84	16.18	78.19	39.77	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	12/12/2017	5/30/2018	5	122	
2	Grading	Grading	6/1/2018	8/29/2018	5	64	
3	Building Construction	Building Construction	2/5/2020	1/19/2021	5	250	
4	Paving	Paving	11/1/2020	1/19/2021	5	57	
5	Architectural Coating	Architectural Coating	11/1/2020	1/19/2021	5	57	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 451,050; Non-Residential Outdoor: 150,350 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	128.00	2.00	3,369.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	499.00	2.00	10,986.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	516.00	49.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	68.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2017

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					4.4500e-003	0.0000	4.4500e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0290	0.2861	0.2088	3.0000e-004		0.0162	0.0162		0.0153	0.0153	0.0000	26.7858	26.7858	6.5600e-003	0.0000	26.9236
Total	0.0290	0.2861	0.2088	3.0000e-004	4.4500e-003	0.0162	0.0207	6.7000e-004	0.0153	0.0159	0.0000	26.7858	26.7858	6.5600e-003	0.0000	26.9236

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	3.2700e-003	0.0517	0.0408	1.4000e-004	0.0226	7.6000e-004	0.0234	5.6500e-003	7.0000e-004	6.3400e-003	0.0000	12.8212	12.8212	9.0000e-005	0.0000	12.8231
Vendor	1.1000e-004	1.1600e-003	1.5500e-003	0.0000	9.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2717	0.2717	0.0000	0.0000	0.2717
Worker	3.2200e-003	4.7600e-003	0.0495	1.2000e-004	9.8300e-003	8.0000e-005	9.9100e-003	2.6100e-003	7.0000e-005	2.6800e-003	0.0000	8.8564	8.8564	4.6000e-004	0.0000	8.8660
Total	6.6000e-003	0.0577	0.0919	2.6000e-004	0.0325	8.6000e-004	0.0334	8.2800e-003	7.9000e-004	9.0600e-003	0.0000	21.9492	21.9492	5.5000e-004	0.0000	21.9608

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					1.7400e-003	0.0000	1.7400e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4200e-003	0.0148	0.1785	3.0000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	26.7857	26.7857	6.5600e-003	0.0000	26.9235
Total	3.4200e-003	0.0148	0.1785	3.0000e-004	1.7400e-003	4.6000e-004	2.2000e-003	2.6000e-004	4.6000e-004	7.2000e-004	0.0000	26.7857	26.7857	6.5600e-003	0.0000	26.9235

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	3.2700e-003	0.0517	0.0408	1.4000e-004	0.0226	7.6000e-004	0.0234	5.6500e-003	7.0000e-004	6.3400e-003	0.0000	12.8212	12.8212	9.0000e-005	0.0000	12.8231
Vendor	1.1000e-004	1.1600e-003	1.5500e-003	0.0000	9.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2717	0.2717	0.0000	0.0000	0.2717
Worker	3.2200e-003	4.7600e-003	0.0495	1.2000e-004	9.8300e-003	8.0000e-005	9.9100e-003	2.6100e-003	7.0000e-005	2.6800e-003	0.0000	8.8564	8.8564	4.6000e-004	0.0000	8.8660
Total	6.6000e-003	0.0577	0.0919	2.6000e-004	0.0325	8.6000e-004	0.0334	8.2800e-003	7.9000e-004	9.0600e-003	0.0000	21.9492	21.9492	5.5000e-004	0.0000	21.9608

3.2 Demolition - 2018

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					0.0343	0.0000	0.0343	5.2000e-003	0.0000	5.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1961	1.9337	1.5380	2.2800e-003		0.1061	0.1061		0.0999	0.0999	0.0000	204.2353	204.2353	0.0500	0.0000	205.2853
Total	0.1961	1.9337	1.5380	2.2800e-003	0.0343	0.1061	0.1404	5.2000e-003	0.0999	0.1051	0.0000	204.2353	204.2353	0.0500	0.0000	205.2853

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	0.0246	0.3705	0.3084	1.1000e-003	0.0281	5.8500e-003	0.0339	7.6300e-003	5.3800e-003	0.0130	0.0000	97.2651	97.2651	7.2000e-004	0.0000	97.2802
Vendor	8.2000e-004	8.1900e-003	0.0114	2.0000e-005	6.6000e-004	1.3000e-004	7.9000e-004	1.9000e-004	1.2000e-004	3.1000e-004	0.0000	2.0606	2.0606	1.0000e-005	0.0000	2.0610
Worker	0.0223	0.0333	0.3460	9.3000e-004	0.0758	6.0000e-004	0.0764	0.0201	5.6000e-004	0.0207	0.0000	65.7707	65.7707	3.2800e-003	0.0000	65.8394
Total	0.0477	0.4120	0.6658	2.0500e-003	0.1046	6.5800e-003	0.1111	0.0280	6.0600e-003	0.0340	0.0000	165.0964	165.0964	4.0100e-003	0.0000	165.1806

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					0.0134	0.0000	0.0134	2.0300e-003	0.0000	2.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.1142	1.3769	2.2800e-003		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	204.2351	204.2351	0.0500	0.0000	205.2851
Total	0.0264	0.1142	1.3769	2.2800e-003	0.0134	3.5100e-003	0.0169	2.0300e-003	3.5100e-003	5.5400e-003	0.0000	204.2351	204.2351	0.0500	0.0000	205.2851

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	0.0246	0.3705	0.3084	1.1000e-003	0.0281	5.8500e-003	0.0339	7.6300e-003	5.3800e-003	0.0130	0.0000	97.2651	97.2651	7.2000e-004	0.0000	97.2802
Vendor	8.2000e-004	8.1900e-003	0.0114	2.0000e-005	6.6000e-004	1.3000e-004	7.9000e-004	1.9000e-004	1.2000e-004	3.1000e-004	0.0000	2.0606	2.0606	1.0000e-005	0.0000	2.0610
Worker	0.0223	0.0333	0.3460	9.3000e-004	0.0758	6.0000e-004	0.0764	0.0201	5.6000e-004	0.0207	0.0000	65.7707	65.7707	3.2800e-003	0.0000	65.8394
Total	0.0477	0.4120	0.6658	2.0500e-003	0.1046	6.5800e-003	0.1111	0.0280	6.0600e-003	0.0340	0.0000	165.0964	165.0964	4.0100e-003	0.0000	165.1806

3.3 Grading - 2018

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					0.2134	0.0000	0.2134	0.1083	0.0000	0.1083	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0866	0.8927	0.6605	7.8000e-004		0.0501	0.0501		0.0461	0.0461	0.0000	71.4241	71.4241	0.0222	0.0000	71.8910
Total	0.0866	0.8927	0.6605	7.8000e-004	0.2134	0.0501	0.2635	0.1083	0.0461	0.1544	0.0000	71.4241	71.4241	0.0222	0.0000	71.8910

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	0.0906	1.3647	1.1361	4.0400e-003	0.0942	0.0215	0.1157	0.0258	0.0198	0.0456	0.0000	358.2875	358.2875	2.6500e-003	0.0000	358.3432
Vendor	4.9000e-004	4.8500e-003	6.7700e-003	1.0000e-005	3.9000e-004	8.0000e-005	4.7000e-004	1.1000e-004	7.0000e-005	1.8000e-004	0.0000	1.2211	1.2211	1.0000e-005	0.0000	1.2213
Worker	0.0515	0.0770	0.7992	2.1500e-003	0.1752	1.4000e-003	0.1766	0.0465	1.2900e-003	0.0478	0.0000	151.9424	151.9424	7.5700e-003	0.0000	152.1013
Total	0.1426	1.4466	1.9421	6.2000e-003	0.2698	0.0230	0.2928	0.0725	0.0212	0.0936	0.0000	511.4510	511.4510	0.0102	0.0000	511.6658

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					0.0832	0.0000	0.0832	0.0423	0.0000	0.0423	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5200e-003	0.0412	0.5005	7.8000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	71.4240	71.4240	0.0222	0.0000	71.8909
Total	9.5200e-003	0.0412	0.5005	7.8000e-004	0.0832	1.2700e-003	0.0845	0.0423	1.2700e-003	0.0435	0.0000	71.4240	71.4240	0.0222	0.0000	71.8909

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	0.0906	1.3647	1.1361	4.0400e-003	0.0942	0.0215	0.1157	0.0258	0.0198	0.0456	0.0000	358.2875	358.2875	2.6500e-003	0.0000	358.3432
Vendor	4.9000e-004	4.8500e-003	6.7700e-003	1.0000e-005	3.9000e-004	8.0000e-005	4.7000e-004	1.1000e-004	7.0000e-005	1.8000e-004	0.0000	1.2211	1.2211	1.0000e-005	0.0000	1.2213
Worker	0.0515	0.0770	0.7992	2.1500e-003	0.1752	1.4000e-003	0.1766	0.0465	1.2900e-003	0.0478	0.0000	151.9424	151.9424	7.5700e-003	0.0000	152.1013
Total	0.1426	1.4466	1.9421	6.2000e-003	0.2698	0.0230	0.2928	0.0725	0.0212	0.0936	0.0000	511.4510	511.4510	0.0102	0.0000	511.6658

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1036	0.8869	0.5638	1.0700e-003		0.0443	0.0443		0.0416	0.0416	0.0000	89.6418	89.6418	0.0251	0.0000	90.1684
Total	0.1036	0.8869	0.5638	1.0700e-003		0.0443	0.0443		0.0416	0.0416	0.0000	89.6418	89.6418	0.0251	0.0000	90.1684

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	0.0396	0.3542	0.5755	1.2500e-003	0.0357	6.0000e-003	0.0418	0.0102	5.5200e-003	0.0157	0.0000	106.1809	106.1809	7.7000e-004	0.0000	106.1971
Worker	0.1697	0.2507	2.6118	8.2100e-003	0.6709	5.2200e-003	0.6761	0.1782	4.8400e-003	0.1830	0.0000	536.9514	536.9514	0.0257	0.0000	537.4909
Total	0.2093	0.6048	3.1873	9.4600e-003	0.7066	0.0112	0.7178	0.1884	0.0104	0.1987	0.0000	643.1323	643.1323	0.0265	0.0000	643.6880

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	0.0500	0.2270	0.6107	1.0700e-003		0.0116	0.0116		0.0116	0.0116	0.0000	89.6417	89.6417	0.0251	0.0000	90.1683
Total	0.0500	0.2270	0.6107	1.0700e-003		0.0116	0.0116		0.0116	0.0116	0.0000	89.6417	89.6417	0.0251	0.0000	90.1683

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	0.0396	0.3542	0.5755	1.2500e-003	0.0357	6.0000e-003	0.0418	0.0102	5.5200e-003	0.0157	0.0000	106.1809	106.1809	7.7000e-004	0.0000	106.1971
Worker	0.1697	0.2507	2.6118	8.2100e-003	0.6709	5.2200e-003	0.6761	0.1782	4.8400e-003	0.1830	0.0000	536.9514	536.9514	0.0257	0.0000	537.4909
Total	0.2093	0.6048	3.1873	9.4600e-003	0.7066	0.0112	0.7178	0.1884	0.0104	0.1987	0.0000	643.1323	643.1323	0.0265	0.0000	643.6880

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1100e-003	0.0445	0.0298	6.0000e-005		2.1200e-003	2.1200e-003		1.9900e-003	1.9900e-003	0.0000	4.9168	4.9168	1.3500e-003	0.0000	4.9452
Total	5.1100e-003	0.0445	0.0298	6.0000e-005		2.1200e-003	2.1200e-003		1.9900e-003	1.9900e-003	0.0000	4.9168	4.9168	1.3500e-003	0.0000	4.9452

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	2.1000e-003	0.0165	0.0308	7.0000e-005	1.9600e-003	3.0000e-004	2.2600e-003	5.6000e-004	2.8000e-004	8.4000e-004	0.0000	5.8218	5.8218	4.0000e-005	0.0000	5.8227
Worker	8.8100e-003	0.0129	0.1346	4.5000e-004	0.0368	2.9000e-004	0.0371	9.7700e-003	2.7000e-004	0.0100	0.0000	28.9965	28.9965	1.3500e-003	0.0000	29.0248
Total	0.0109	0.0294	0.1654	5.2000e-004	0.0388	5.9000e-004	0.0393	0.0103	5.5000e-004	0.0109	0.0000	34.8183	34.8183	1.3900e-003	0.0000	34.8475

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	2.4800e-003	0.0121	0.0332	6.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	4.9168	4.9168	1.3500e-003	0.0000	4.9452
Total	2.4800e-003	0.0121	0.0332	6.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	4.9168	4.9168	1.3500e-003	0.0000	4.9452

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	2.1000e-003	0.0165	0.0308	7.0000e-005	1.9600e-003	3.0000e-004	2.2600e-003	5.6000e-004	2.8000e-004	8.4000e-004	0.0000	5.8218	5.8218	4.0000e-005	0.0000	5.8227
Worker	8.8100e-003	0.0129	0.1346	4.5000e-004	0.0368	2.9000e-004	0.0371	9.7700e-003	2.7000e-004	0.0100	0.0000	28.9965	28.9965	1.3500e-003	0.0000	29.0248
Total	0.0109	0.0294	0.1654	5.2000e-004	0.0388	5.9000e-004	0.0393	0.0103	5.5000e-004	0.0109	0.0000	34.8183	34.8183	1.3900e-003	0.0000	34.8475

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0245	0.2323	0.2130	3.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	26.5261	26.5261	8.3600e-003	0.0000	26.7017
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0245	0.2323	0.2130	3.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	26.5261	26.5261	8.3600e-003	0.0000	26.7017

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	2.4400e-003	3.6100e-003	0.0376	1.2000e-004	9.6500e-003	8.0000e-005	9.7300e-003	2.5600e-003	7.0000e-005	2.6300e-003	0.0000	7.7277	7.7277	3.7000e-004	0.0000	7.7355
Total	2.4400e-003	3.6100e-003	0.0376	1.2000e-004	9.6500e-003	8.0000e-005	9.7300e-003	2.5600e-003	7.0000e-005	2.6300e-003	0.0000	7.7277	7.7277	3.7000e-004	0.0000	7.7355

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	4.8600e-003	0.0235	0.2266	3.1000e-004		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	26.5261	26.5261	8.3600e-003	0.0000	26.7016
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.8600e-003	0.0235	0.2266	3.1000e-004		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	26.5261	26.5261	8.3600e-003	0.0000	26.7016

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	2.4400e-003	3.6100e-003	0.0376	1.2000e-004	9.6500e-003	8.0000e-005	9.7300e-003	2.5600e-003	7.0000e-005	2.6300e-003	0.0000	7.7277	7.7277	3.7000e-004	0.0000	7.7355
Total	2.4400e-003	3.6100e-003	0.0376	1.2000e-004	9.6500e-003	8.0000e-005	9.7300e-003	2.5600e-003	7.0000e-005	2.6300e-003	0.0000	7.7277	7.7277	3.7000e-004	0.0000	7.7355

3.5 Paving - 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	6.6100e-003	0.0631	0.0626	9.0000e-005		3.9000e-003	3.9000e-003		3.5900e-003	3.5900e-003	0.0000	7.8384	7.8384	2.4700e-003	0.0000	7.8903
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.6100e-003	0.0631	0.0626	9.0000e-005		3.9000e-003	3.9000e-003		3.5900e-003	3.5900e-003	0.0000	7.8384	7.8384	2.4700e-003	0.0000	7.8903

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	6.8000e-004	1.0000e-003	0.0104	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.2478	2.2478	1.0000e-004	0.0000	2.2500
Total	6.8000e-004	1.0000e-003	0.0104	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.2478	2.2478	1.0000e-004	0.0000	2.2500

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	1.4300e-003	6.9600e-003	0.0669	9.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	7.8384	7.8384	2.4700e-003	0.0000	7.8903
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.4300e-003	6.9600e-003	0.0669	9.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	7.8384	7.8384	2.4700e-003	0.0000	7.8903

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	6.8000e-004	1.0000e-003	0.0104	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.2478	2.2478	1.0000e-004	0.0000	2.2500
Total	6.8000e-004	1.0000e-003	0.0104	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.2478	2.2478	1.0000e-004	0.0000	2.2500

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6897					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3300e-003	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6263
Total	2.6950	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6263

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1500e-003	6.1300e-003	0.0639	2.0000e-004	0.0164	1.3000e-004	0.0165	4.3600e-003	1.2000e-004	4.4800e-003	0.0000	13.1371	13.1371	6.3000e-004	0.0000	13.1503
Total	4.1500e-003	6.1300e-003	0.0639	2.0000e-004	0.0164	1.3000e-004	0.0165	4.3600e-003	1.2000e-004	4.4800e-003	0.0000	13.1371	13.1371	6.3000e-004	0.0000	13.1503

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6897					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	2.8300e-003	0.0403	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6263
Total	2.6903	2.8300e-003	0.0403	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6263

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1500e-003	6.1300e-003	0.0639	2.0000e-004	0.0164	1.3000e-004	0.0165	4.3600e-003	1.2000e-004	4.4800e-003	0.0000	13.1371	13.1371	6.3000e-004	0.0000	13.1503
Total	4.1500e-003	6.1300e-003	0.0639	2.0000e-004	0.0164	1.3000e-004	0.0165	4.3600e-003	1.2000e-004	4.4800e-003	0.0000	13.1371	13.1371	6.3000e-004	0.0000	13.1503

3.6 Architectural Coating - 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					
Archit. Coating	0.7947					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4200e-003	9.9200e-003	0.0118	2.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	1.6596	1.6596	1.1000e-004	0.0000	1.6620
Total	0.7961	9.9200e-003	0.0118	2.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	1.6596	1.6596	1.1000e-004	0.0000	1.6620

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	1.1600e-003	1.6900e-003	0.0177	6.0000e-005	4.8500e-003	4.0000e-005	4.8900e-003	1.2900e-003	4.0000e-005	1.3200e-003	0.0000	3.8213	3.8213	1.8000e-004	0.0000	3.8250
Total	1.1600e-003	1.6900e-003	0.0177	6.0000e-005	4.8500e-003	4.0000e-005	4.8900e-003	1.2900e-003	4.0000e-005	1.3200e-003	0.0000	3.8213	3.8213	1.8000e-004	0.0000	3.8250

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	0.7947					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	8.4000e-004	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	1.1000e-004	0.0000	1.6620
Total	0.7949	8.4000e-004	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	1.1000e-004	0.0000	1.6620

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	1.1600e-003	1.6900e-003	0.0177	6.0000e-005	4.8500e-003	4.0000e-005	4.8900e-003	1.2900e-003	4.0000e-005	1.3200e-003	0.0000	3.8213	3.8213	1.8000e-004	0.0000	3.8250
Total	1.1600e-003	1.6900e-003	0.0177	6.0000e-005	4.8500e-003	4.0000e-005	4.8900e-003	1.2900e-003	4.0000e-005	1.3200e-003	0.0000	3.8213	3.8213	1.8000e-004	0.0000	3.8250

Appendix D. 1

Construction Emissions – CalEEMod Output (Annual)

Phase 2 Construction Emissions

Harbor UCLA Master Plan- Phase 2 South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	130.00	1000sqft	2.98	130,000.00	0
Hospital	97.50	1000sqft	2.24	97,500.00	0
Hospital	2.40	1000sqft	0.06	2,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2014
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	114.00
tblConstructionPhase	NumDays	230.00	95.00
tblConstructionPhase	NumDays	230.00	108.00
tblConstructionPhase	NumDays	230.00	108.00
tblConstructionPhase	NumDays	230.00	202.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	20.00	93.00
tblConstructionPhase	PhaseEndDate	5/15/2024	12/7/2023

tblConstructionPhase	PhaseEndDate	1/27/2022	1/30/2022
tblConstructionPhase	PhaseEndDate	6/29/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	4/10/2023	12/7/2023
tblConstructionPhase	PhaseEndDate	4/16/2024	12/7/2023
tblConstructionPhase	PhaseStartDate	12/8/2023	7/1/2023
tblConstructionPhase	PhaseStartDate	8/31/2021	9/1/2021
tblConstructionPhase	PhaseStartDate	1/31/2022	2/1/2022
tblConstructionPhase	PhaseStartDate	7/1/2022	3/1/2023
tblConstructionPhase	PhaseStartDate	12/8/2023	8/1/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	38.00	40.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	455.00
tblTripsAndVMT	WorkerTripNumber	15.00	92.00
tblTripsAndVMT	WorkerTripNumber	13.00	80.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2262	1.6638	2.4480	6.2100e-003	0.2992	0.0745	0.3737	0.0799	0.0695	0.1494	0.0000	462.1452	462.1452	0.0606	0.0000	463.4168
2022	0.1438	0.9287	1.6499	4.1300e-003	0.2046	0.0418	0.2464	0.0546	0.0393	0.0939	0.0000	301.8227	301.8227	0.0350	0.0000	302.5583
2023	3.0246	2.0597	4.2336	0.0113	0.6274	0.0949	0.7223	0.1671	0.0893	0.2564	0.0000	795.5281	795.5281	0.0842	0.0000	797.2956
Total	3.3946	4.6521	8.3316	0.0217	1.1311	0.2112	1.3423	0.3016	0.1981	0.4998	0.0000	1,559.4960	1,559.4960	0.1798	0.0000	1,563.2706

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	0.1140	0.3854	2.5808	6.2100e-003	0.2992	8.7300e-003	0.3079	0.0799	8.3100e-003	0.0882	0.0000	462.1450	462.1450	0.0606	0.0000	463.4166
2022	0.0870	0.3139	1.7073	4.1300e-003	0.2046	8.9900e-003	0.2135	0.0546	8.7000e-003	0.0633	0.0000	301.8226	301.8226	0.0350	0.0000	302.5582
2023	2.9013	0.7703	4.3608	0.0113	0.6274	0.0242	0.6516	0.1671	0.0236	0.1907	0.0000	795.5278	795.5278	0.0842	0.0000	797.2952
Total	3.1023	1.4695	8.6488	0.0217	1.1311	0.0419	1.1730	0.3016	0.0406	0.3422	0.0000	1,559.4953	1,559.4953	0.1798	0.0000	1,563.2699

	ROG	NOx	CO	SO2	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	8.61	68.41	-3.81	0.00	0.00	80.16	12.61	0.00	79.53	31.53	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	Grading	Grading	1/20/2021	4/19/2021	5	64	
2	Building Construction	Building Construction	4/20/2021	8/30/2021	5	95	
3	Building Construction 2	Building Construction	9/1/2021	1/30/2022	5	108	
4	Building Construction 3	Building Construction	2/1/2022	6/30/2022	5	108	
5	Building Construction 4	Building Construction	3/1/2023	12/7/2023	5	202	
6	Architectural Coating	Architectural Coating	7/1/2023	12/7/2023	5	114	
7	Paving	Paving	8/1/2023	12/7/2023	5	93	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 344,850; Non-Residential Outdoor: 114,950 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Building Construction 2	Air Compressors	1	8.00	78	0.48
Building Construction 2	Cranes	1	7.00	226	0.29
Building Construction 2	Forklifts	0	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 2	Welders	0	8.00	46	0.45
Building Construction 3	Air Compressors	1	8.00	78	0.48
Building Construction 3	Cranes	1	7.00	226	0.29
Building Construction 3	Forklifts	1	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 3	Welders	1	8.00	46	0.45
Building Construction 4	Air Compressors	1	8.00	78	0.48
Building Construction 4	Cranes	1	7.00	226	0.29
Building Construction 4	Forklifts	2	8.00	89	0.20
Building Construction 4	Generator Sets	0	8.00	84	0.74

Building Construction 4	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 4	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	2	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	4	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	7	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 4	8	455.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	92.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	80.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0168	0.1819	0.1225	3.0000e-004		7.6200e-003	7.6200e-003		7.0100e-003	7.0100e-003	0.0000	25.9586	25.9586	8.4000e-003	0.0000	26.1349
Total	0.0168	0.1819	0.1225	3.0000e-004	0.0000	7.6200e-003	7.6200e-003	0.0000	7.0100e-003	7.0100e-003	0.0000	25.9586	25.9586	8.4000e-003	0.0000	26.1349

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	4.2000e-004	3.3100e-003	6.1800e-003	1.0000e-005	3.9000e-004	6.0000e-005	4.5000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.1698	1.1698	1.0000e-005	0.0000	1.1700
Worker	1.5100e-003	2.2100e-003	0.0231	8.0000e-005	6.3200e-003	5.0000e-005	6.3700e-003	1.6800e-003	5.0000e-005	1.7200e-003	0.0000	4.9797	4.9797	2.3000e-004	0.0000	4.9846
Total	1.9300e-003	5.5200e-003	0.0293	9.0000e-005	6.7100e-003	1.1000e-004	6.8200e-003	1.7900e-003	1.1000e-004	1.8900e-003	0.0000	6.1496	6.1496	2.4000e-004	0.0000	6.1546

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6400e-003	0.0158	0.1639	3.0000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	25.9585	25.9585	8.4000e-003	0.0000	26.1348
Total	3.6400e-003	0.0158	0.1639	3.0000e-004	0.0000	4.9000e-004	4.9000e-004	0.0000	4.9000e-004	4.9000e-004	0.0000	25.9585	25.9585	8.4000e-003	0.0000	26.1348

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	4.2000e-004	3.3100e-003	6.1800e-003	1.0000e-005	3.9000e-004	6.0000e-005	4.5000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.1698	1.1698	1.0000e-005	0.0000	1.1700
Worker	1.5100e-003	2.2100e-003	0.0231	8.0000e-005	6.3200e-003	5.0000e-005	6.3700e-003	1.6800e-003	5.0000e-005	1.7200e-003	0.0000	4.9797	4.9797	2.3000e-004	0.0000	4.9846
Total	1.9300e-003	5.5200e-003	0.0293	9.0000e-005	6.7100e-003	1.1000e-004	6.8200e-003	1.7900e-003	1.1000e-004	1.8900e-003	0.0000	6.1496	6.1496	2.4000e-004	0.0000	6.1546

3.3 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	0.0769	0.7835	0.6137	1.1200e-003		0.0399	0.0399		0.0372	0.0372	0.0000	97.8080	97.8080	0.0275	0.0000	98.3858
Total	0.0769	0.7835	0.6137	1.1200e-003		0.0399	0.0399		0.0372	0.0372	0.0000	97.8080	97.8080	0.0275	0.0000	98.3858

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	0.0119	0.0935	0.1744	3.9000e-004	0.0111	1.7000e-003	0.0128	3.1700e-003	1.5600e-003	4.7300e-003	0.0000	32.9932	32.9932	2.4000e-004	0.0000	32.9983
Worker	0.0337	0.0492	0.5146	1.7300e-003	0.1407	1.1000e-003	0.1418	0.0374	1.0200e-003	0.0384	0.0000	110.8766	110.8766	5.1600e-003	0.0000	110.9850
Total	0.0456	0.1426	0.6890	2.1200e-003	0.1518	2.8000e-003	0.1546	0.0405	2.5800e-003	0.0431	0.0000	143.8698	143.8698	5.4000e-003	0.0000	143.9832

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	0.0133	0.0575	0.6746	1.1200e-003		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	97.8079	97.8079	0.0275	0.0000	98.3856
Total	0.0133	0.0575	0.6746	1.1200e-003		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	97.8079	97.8079	0.0275	0.0000	98.3856

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	0.0119	0.0935	0.1744	3.9000e-004	0.0111	1.7000e-003	0.0128	3.1700e-003	1.5600e-003	4.7300e-003	0.0000	32.9932	32.9932	2.4000e-004	0.0000	32.9983
Worker	0.0337	0.0492	0.5146	1.7300e-003	0.1407	1.1000e-003	0.1418	0.0374	1.0200e-003	0.0384	0.0000	110.8766	110.8766	5.1600e-003	0.0000	110.9850
Total	0.0456	0.1426	0.6890	2.1200e-003	0.1518	2.8000e-003	0.1546	0.0405	2.5800e-003	0.0431	0.0000	143.8698	143.8698	5.4000e-003	0.0000	143.9832

3.4 Building Construction 2 - 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	0.0428	0.4182	0.3554	6.3000e-004		0.0215	0.0215		0.0203	0.0203	0.0000	55.0904	55.0904	0.0140	0.0000	55.3844
Total	0.0428	0.4182	0.3554	6.3000e-004		0.0215	0.0215		0.0203	0.0203	0.0000	55.0904	55.0904	0.0140	0.0000	55.3844

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	0.0110	0.0866	0.1615	3.6000e-004	0.0103	1.5700e-003	0.0119	2.9400e-003	1.4500e-003	4.3900e-003	0.0000	30.5621	30.5621	2.2000e-004	0.0000	30.5668
Worker	0.0312	0.0455	0.4767	1.6000e-003	0.1303	1.0200e-003	0.1314	0.0346	9.4000e-004	0.0356	0.0000	102.7068	102.7068	4.7800e-003	0.0000	102.8071
Total	0.0422	0.1321	0.6382	1.9600e-003	0.1406	2.5900e-003	0.1432	0.0376	2.3900e-003	0.0400	0.0000	133.2689	133.2689	5.0000e-003	0.0000	133.3739

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	7.3400e-003	0.0318	0.3858	6.3000e-004		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	55.0903	55.0903	0.0140	0.0000	55.3843
Total	7.3400e-003	0.0318	0.3858	6.3000e-004		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	55.0903	55.0903	0.0140	0.0000	55.3843

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	0.0110	0.0866	0.1615	3.6000e-004	0.0103	1.5700e-003	0.0119	2.9400e-003	1.4500e-003	4.3900e-003	0.0000	30.5621	30.5621	2.2000e-004	0.0000	30.5668
Worker	0.0312	0.0455	0.4767	1.6000e-003	0.1303	1.0200e-003	0.1314	0.0346	9.4000e-004	0.0356	0.0000	102.7068	102.7068	4.7800e-003	0.0000	102.8071
Total	0.0422	0.1321	0.6382	1.9600e-003	0.1406	2.5900e-003	0.1432	0.0376	2.3900e-003	0.0400	0.0000	133.2689	133.2689	5.0000e-003	0.0000	133.3739

3.4 Building Construction 2 - 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	8.8000e-003	0.0839	0.0795	1.4000e-004		4.1500e-003	4.1500e-003		3.9100e-003	3.9100e-003	0.0000	12.5266	12.5266	3.1700e-003	0.0000	12.5932
Total	8.8000e-003	0.0839	0.0795	1.4000e-004		4.1500e-003	4.1500e-003		3.9100e-003	3.9100e-003	0.0000	12.5266	12.5266	3.1700e-003	0.0000	12.5932

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	2.4500e-003	0.0179	0.0358	8.0000e-005	2.3400e-003	3.5000e-004	2.6900e-003	6.7000e-004	3.3000e-004	9.9000e-004	0.0000	6.9397	6.9397	5.0000e-005	0.0000	6.9408
Worker	6.7100e-003	9.7100e-003	0.1019	3.6000e-004	0.0296	2.3000e-004	0.0299	7.8700e-003	2.1000e-004	8.0800e-003	0.0000	22.9547	22.9547	1.0400e-003	0.0000	22.9766
Total	9.1600e-003	0.0276	0.1377	4.4000e-004	0.0320	5.8000e-004	0.0325	8.5400e-003	5.4000e-004	9.0700e-003	0.0000	29.8944	29.8944	1.0900e-003	0.0000	29.9173

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	1.6700e-003	7.2300e-003	0.0877	1.4000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	12.5266	12.5266	3.1700e-003	0.0000	12.5932
Total	1.6700e-003	7.2300e-003	0.0877	1.4000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	12.5266	12.5266	3.1700e-003	0.0000	12.5932

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	2.4500e-003	0.0179	0.0358	8.0000e-005	2.3400e-003	3.5000e-004	2.6900e-003	6.7000e-004	3.3000e-004	9.9000e-004	0.0000	6.9397	6.9397	5.0000e-005	0.0000	6.9408
Worker	6.7100e-003	9.7100e-003	0.1019	3.6000e-004	0.0296	2.3000e-004	0.0299	7.8700e-003	2.1000e-004	8.0800e-003	0.0000	22.9547	22.9547	1.0400e-003	0.0000	22.9766
Total	9.1600e-003	0.0276	0.1377	4.4000e-004	0.0320	5.8000e-004	0.0325	8.5400e-003	5.4000e-004	9.0700e-003	0.0000	29.8944	29.8944	1.0900e-003	0.0000	29.9173

3.5 Building Construction 3 - 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	0.0764	0.6683	0.6892	1.1400e-003		0.0339	0.0339		0.0320	0.0320	0.0000	97.9719	97.9719	0.0249	0.0000	98.4941
Total	0.0764	0.6683	0.6892	1.1400e-003		0.0339	0.0339		0.0320	0.0320	0.0000	97.9719	97.9719	0.0249	0.0000	98.4941

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	0.0132	0.0964	0.1934	4.4000e-004	0.0126	1.9100e-003	0.0145	3.6100e-003	1.7600e-003	5.3600e-003	0.0000	37.4742	37.4742	2.8000e-004	0.0000	37.4801
Worker	0.0362	0.0524	0.5501	1.9600e-003	0.1600	1.2500e-003	0.1612	0.0425	1.1600e-003	0.0436	0.0000	123.9556	123.9556	5.6200e-003	0.0000	124.0735
Total	0.0494	0.1489	0.7435	2.4000e-003	0.1726	3.1600e-003	0.1758	0.0461	2.9200e-003	0.0490	0.0000	161.4298	161.4298	5.9000e-003	0.0000	161.5536

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	0.0268	0.1302	0.7384	1.1400e-003		5.0300e-003	5.0300e-003		5.0300e-003	5.0300e-003	0.0000	97.9718	97.9718	0.0249	0.0000	98.4940
Total	0.0268	0.1302	0.7384	1.1400e-003		5.0300e-003	5.0300e-003		5.0300e-003	5.0300e-003	0.0000	97.9718	97.9718	0.0249	0.0000	98.4940

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	0.0132	0.0964	0.1934	4.4000e-004	0.0126	1.9100e-003	0.0145	3.6100e-003	1.7600e-003	5.3600e-003	0.0000	37.4742	37.4742	2.8000e-004	0.0000	37.4801
Worker	0.0362	0.0524	0.5501	1.9600e-003	0.1600	1.2500e-003	0.1612	0.0425	1.1600e-003	0.0436	0.0000	123.9556	123.9556	5.6200e-003	0.0000	124.0735
Total	0.0494	0.1489	0.7435	2.4000e-003	0.1726	3.1600e-003	0.1758	0.0461	2.9200e-003	0.0490	0.0000	161.4298	161.4298	5.9000e-003	0.0000	161.5536

3.6 Building Construction 4 - 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	0.1551	1.2576	1.3671	2.2700e-003		0.0598	0.0598		0.0567	0.0567	0.0000	191.7197	191.7197	0.0448	0.0000	192.6603
Total	0.1551	1.2576	1.3671	2.2700e-003		0.0598	0.0598		0.0567	0.0567	0.0000	191.7197	191.7197	0.0448	0.0000	192.6603

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	0.0241	0.1509	0.3663	8.6000e-004	0.0249	3.7100e-003	0.0286	7.1000e-003	3.4200e-003	0.0105	0.0000	73.4249	73.4249	5.0000e-004	0.0000	73.4354
Worker	0.1082	0.1555	1.6335	6.1800e-003	0.5042	3.9300e-003	0.5081	0.1339	3.6400e-003	0.1375	0.0000	384.6779	384.6779	0.0170	0.0000	385.0350
Total	0.1323	0.3064	1.9998	7.0400e-003	0.5291	7.6400e-003	0.5367	0.1410	7.0600e-003	0.1481	0.0000	458.1028	458.1028	0.0175	0.0000	458.4704

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	0.0721	0.3764	1.4590	2.2700e-003		0.0139	0.0139		0.0139	0.0139	0.0000	191.7194	191.7194	0.0448	0.0000	192.6601
Total	0.0721	0.3764	1.4590	2.2700e-003		0.0139	0.0139		0.0139	0.0139	0.0000	191.7194	191.7194	0.0448	0.0000	192.6601

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	0.0241	0.1509	0.3663	8.6000e-004	0.0249	3.7100e-003	0.0286	7.1000e-003	3.4200e-003	0.0105	0.0000	73.4249	73.4249	5.0000e-004	0.0000	73.4354
Worker	0.1082	0.1555	1.6335	6.1800e-003	0.5042	3.9300e-003	0.5081	0.1339	3.6400e-003	0.1375	0.0000	384.6779	384.6779	0.0170	0.0000	385.0350
Total	0.1323	0.3064	1.9998	7.0400e-003	0.5291	7.6400e-003	0.5367	0.1410	7.0600e-003	0.1481	0.0000	458.1028	458.1028	0.0175	0.0000	458.4704

3.7 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	2.6640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0743	0.1032	1.7000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	14.5536	14.5536	8.7000e-004	0.0000	14.5718
Total	2.6749	0.0743	0.1032	1.7000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	14.5536	14.5536	8.7000e-004	0.0000	14.5718

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	0.0123	0.0178	0.1864	7.1000e-004	0.0575	4.5000e-004	0.0580	0.0153	4.2000e-004	0.0157	0.0000	43.8962	43.8962	1.9400e-003	0.0000	43.9370
Total	0.0123	0.0178	0.1864	7.1000e-004	0.0575	4.5000e-004	0.0580	0.0153	4.2000e-004	0.0157	0.0000	43.8962	43.8962	1.9400e-003	0.0000	43.9370

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6900e-003	7.3400e-003	0.1045	1.7000e-004		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	14.5535	14.5535	8.7000e-004	0.0000	14.5718
Total	2.6657	7.3400e-003	0.1045	1.7000e-004		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	14.5535	14.5535	8.7000e-004	0.0000	14.5718

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	0.0178	0.1864	7.1000e-004	0.0575	4.5000e-004	0.0580	0.0153	4.2000e-004	0.0157	0.0000	43.8962	43.8962	1.9400e-003	0.0000	43.9370
Total	0.0123	0.0178	0.1864	7.1000e-004	0.0575	4.5000e-004	0.0580	0.0153	4.2000e-004	0.0157	0.0000	43.8962	43.8962	1.9400e-003	0.0000	43.9370

3.8 Paving - 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	0.0413	0.3910	0.4449	6.5000e-004		0.0226	0.0226		0.0208	0.0208	0.0000	56.1167	56.1167	0.0177	0.0000	56.4880
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0413	0.3910	0.4449	6.5000e-004		0.0226	0.0226		0.0208	0.0208	0.0000	56.1167	56.1167	0.0177	0.0000	56.4880

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	8.7500e-003	0.0126	0.1322	5.0000e-004	0.0408	3.2000e-004	0.0411	0.0108	2.9000e-004	0.0111	0.0000	31.1392	31.1392	1.3800e-003	0.0000	31.1681
Total	8.7500e-003	0.0126	0.1322	5.0000e-004	0.0408	3.2000e-004	0.0411	0.0108	2.9000e-004	0.0111	0.0000	31.1392	31.1392	1.3800e-003	0.0000	31.1681

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	0.0103	0.0498	0.4789	6.5000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	56.1166	56.1166	0.0177	0.0000	56.4879
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0103	0.0498	0.4789	6.5000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	56.1166	56.1166	0.0177	0.0000	56.4879

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	8.7500e-003	0.0126	0.1322	5.0000e-004	0.0408	3.2000e-004	0.0411	0.0108	2.9000e-004	0.0111	0.0000	31.1392	31.1392	1.3800e-003	0.0000	31.1681
Total	8.7500e-003	0.0126	0.1322	5.0000e-004	0.0408	3.2000e-004	0.0411	0.0108	2.9000e-004	0.0111	0.0000	31.1392	31.1392	1.3800e-003	0.0000	31.1681

Appendix D. 1

Construction Emissions – CalEEMod Output (Annual)

Phase 3 Construction Emissions

Harbor UCLA Master Plan- Phase 3 South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0
Unenclosed Parking with Elevator	580.00	Space	5.22	250,580.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2014
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Demolition -

Grading -

Architectural Coating - Parking Lot- 6% of square footage= Interior Area

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	62.00

tblConstructionPhase	NumDays	230.00	355.00
tblConstructionPhase	NumDays	20.00	221.00
tblConstructionPhase	NumDays	20.00	121.00
tblConstructionPhase	NumDays	20.00	62.00
tblConstructionPhase	PhaseEndDate	6/22/2023	3/28/2023
tblConstructionPhase	PhaseEndDate	5/4/2022	11/16/2021
tblConstructionPhase	PhaseEndDate	6/22/2023	3/28/2023
tblConstructionPhase	PhaseStartDate	3/29/2023	1/1/2023
tblConstructionPhase	PhaseStartDate	11/17/2021	6/1/2021
tblConstructionPhase	PhaseStartDate	3/29/2023	1/1/2023
tblGrading	MaterialExported	0.00	18,052.00
tblGrading	MaterialImported	0.00	30,126.00
tblLandUse	LandUseSquareFeet	232,000.00	250,580.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblTripsAndVMT	HaulingTripNumber	201.00	3,859.00
tblTripsAndVMT	HaulingTripNumber	6,022.00	8,030.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	140.00
tblTripsAndVMT	WorkerTripNumber	10.00	280.00

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	1/12/2021	11/16/2021	5	221	
2	Grading	Grading	6/1/2021	11/16/2021	5	121	
3	Building Construction	Building Construction	11/17/2021	3/28/2023	5	355	
4	Paving	Paving	1/1/2023	3/28/2023	5	62	
5	Architectural Coating	Architectural Coating	1/1/2023	3/28/2023	5	62	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 60.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 390,870; Non-Residential Outdoor: 130,290 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20

Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	140.00	2.00	3,859.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	280.00	2.00	8,030.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	715.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	48.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	80.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0217	0.0000	0.0217	3.2900e-003	0.0000	3.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3081	2.9724	2.9084	4.6600e-003		0.1472	0.1472		0.1385	0.1385	0.0000	406.5762	406.5762	0.1000	0.0000	408.6755
Total	0.3081	2.9724	2.9084	4.6600e-003	0.0217	0.1472	0.1690	3.2900e-003	0.1385	0.1418	0.0000	406.5762	406.5762	0.1000	0.0000	408.6755

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	0.0301	0.3499	0.3837	1.4100e-003	0.0331	7.4400e-003	0.0405	9.0800e-003	6.8400e-003	0.0159	0.0000	120.5785	120.5785	9.5000e-004	0.0000	120.5984
Vendor	1.4600e-003	0.0114	0.0214	5.0000e-005	1.3600e-003	2.1000e-004	1.5700e-003	3.9000e-004	1.9000e-004	5.8000e-004	0.0000	4.0396	4.0396	3.0000e-005	0.0000	4.0402
Worker	0.0406	0.0593	0.6207	2.0800e-003	0.1697	1.3200e-003	0.1711	0.0451	1.2300e-003	0.0463	0.0000	133.7436	133.7436	6.2200e-003	0.0000	133.8743
Total	0.0722	0.4206	1.0258	3.5400e-003	0.2042	8.9700e-003	0.2132	0.0546	8.2600e-003	0.0628	0.0000	258.3617	258.3617	7.2000e-003	0.0000	258.5129

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					8.4700e-003	0.0000	8.4700e-003	1.2800e-003	0.0000	1.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0539	0.2337	2.8175	4.6600e-003		7.1900e-003	7.1900e-003		7.1900e-003	7.1900e-003	0.0000	406.5757	406.5757	0.1000	0.0000	408.6750
Total	0.0539	0.2337	2.8175	4.6600e-003	8.4700e-003	7.1900e-003	0.0157	1.2800e-003	7.1900e-003	8.4700e-003	0.0000	406.5757	406.5757	0.1000	0.0000	408.6750

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	0.0301	0.3499	0.3837	1.4100e-003	0.0331	7.4400e-003	0.0405	9.0800e-003	6.8400e-003	0.0159	0.0000	120.5785	120.5785	9.5000e-004	0.0000	120.5984
Vendor	1.4600e-003	0.0114	0.0214	5.0000e-005	1.3600e-003	2.1000e-004	1.5700e-003	3.9000e-004	1.9000e-004	5.8000e-004	0.0000	4.0396	4.0396	3.0000e-005	0.0000	4.0402
Worker	0.0406	0.0593	0.6207	2.0800e-003	0.1697	1.3200e-003	0.1711	0.0451	1.2300e-003	0.0463	0.0000	133.7436	133.7436	6.2200e-003	0.0000	133.8743
Total	0.0722	0.4206	1.0258	3.5400e-003	0.2042	8.9700e-003	0.2132	0.0546	8.2600e-003	0.0628	0.0000	258.3617	258.3617	7.2000e-003	0.0000	258.5129

3.3 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					0.3991	0.0000	0.3991	0.2042	0.0000	0.2042	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1147	1.1508	0.9842	1.2900e-003		0.0593	0.0593		0.0546	0.0546	0.0000	113.3687	113.3687	0.0367	0.0000	114.1387
Total	0.1147	1.1508	0.9842	1.2900e-003	0.3991	0.0593	0.4585	0.2042	0.0546	0.2587	0.0000	113.3687	113.3687	0.0367	0.0000	114.1387

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	0.0626	0.7281	0.7984	2.9400e-003	0.0689	0.0155	0.0843	0.0189	0.0142	0.0331	0.0000	250.9058	250.9058	1.9700e-003	0.0000	250.9471
Vendor	8.0000e-004	6.2700e-003	0.0117	3.0000e-005	7.4000e-004	1.1000e-004	8.6000e-004	2.1000e-004	1.0000e-004	3.2000e-004	0.0000	2.2117	2.2117	2.0000e-005	0.0000	2.2121
Worker	0.0445	0.0649	0.6797	2.2800e-003	0.1859	1.4500e-003	0.1873	0.0494	1.3400e-003	0.0507	0.0000	146.4523	146.4523	6.8100e-003	0.0000	146.5953
Total	0.1079	0.7993	1.4898	5.2500e-003	0.2555	0.0170	0.2725	0.0685	0.0157	0.0841	0.0000	399.5698	399.5698	8.8000e-003	0.0000	399.7545

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					0.1557	0.0000	0.1557	0.0796	0.0000	0.0796	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0157	0.0680	0.8045	1.2900e-003		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	113.3685	113.3685	0.0367	0.0000	114.1385
Total	0.0157	0.0680	0.8045	1.2900e-003	0.1557	2.0900e-003	0.1578	0.0796	2.0900e-003	0.0817	0.0000	113.3685	113.3685	0.0367	0.0000	114.1385

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	0.0626	0.7281	0.7984	2.9400e-003	0.0689	0.0155	0.0843	0.0189	0.0142	0.0331	0.0000	250.9058	250.9058	1.9700e-003	0.0000	250.9471
Vendor	8.0000e-004	6.2700e-003	0.0117	3.0000e-005	7.4000e-004	1.1000e-004	8.6000e-004	2.1000e-004	1.0000e-004	3.2000e-004	0.0000	2.2117	2.2117	2.0000e-005	0.0000	2.2121
Worker	0.0445	0.0649	0.6797	2.2800e-003	0.1859	1.4500e-003	0.1873	0.0494	1.3400e-003	0.0507	0.0000	146.4523	146.4523	6.8100e-003	0.0000	146.5953
Total	0.1079	0.7993	1.4898	5.2500e-003	0.2555	0.0170	0.2725	0.0685	0.0157	0.0841	0.0000	399.5698	399.5698	8.8000e-003	0.0000	399.7545

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0193	0.1737	0.1460	2.5000e-004		8.8500e-003	8.8500e-003		8.2600e-003	8.2600e-003	0.0000	21.1193	21.1193	6.0600e-003	0.0000	21.2467
Total	0.0193	0.1737	0.1460	2.5000e-004		8.8500e-003	8.8500e-003		8.2600e-003	8.2600e-003	0.0000	21.1193	21.1193	6.0600e-003	0.0000	21.2467

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	4.6700e-003	0.0367	0.0685	1.5000e-004	4.3700e-003	6.7000e-004	5.0400e-003	1.2500e-003	6.1000e-004	1.8600e-003	0.0000	12.9688	12.9688	1.0000e-004	0.0000	12.9708
Worker	0.0310	0.0452	0.4734	1.5900e-003	0.1294	1.0100e-003	0.1304	0.0344	9.4000e-004	0.0353	0.0000	101.9935	101.9935	4.7400e-003	0.0000	102.0932
Total	0.0356	0.0820	0.5419	1.7400e-003	0.1338	1.6800e-003	0.1355	0.0356	1.5500e-003	0.0372	0.0000	114.9623	114.9623	4.8400e-003	0.0000	115.0640

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	8.3700e-003	0.0414	0.1570	2.5000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	21.1193	21.1193	6.0600e-003	0.0000	21.2467
Total	8.3700e-003	0.0414	0.1570	2.5000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	21.1193	21.1193	6.0600e-003	0.0000	21.2467

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	4.6700e-003	0.0367	0.0685	1.5000e-004	4.3700e-003	6.7000e-004	5.0400e-003	1.2500e-003	6.1000e-004	1.8600e-003	0.0000	12.9688	12.9688	1.0000e-004	0.0000	12.9708
Worker	0.0310	0.0452	0.4734	1.5900e-003	0.1294	1.0100e-003	0.1304	0.0344	9.4000e-004	0.0353	0.0000	101.9935	101.9935	4.7400e-003	0.0000	102.0932
Total	0.0356	0.0820	0.5419	1.7400e-003	0.1338	1.6800e-003	0.1355	0.0356	1.5500e-003	0.0372	0.0000	114.9623	114.9623	4.8400e-003	0.0000	115.0640

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1374	1.2220	1.1303	1.9700e-003		0.0591	0.0591		0.0552	0.0552	0.0000	166.4740	166.4740	0.0476	0.0000	167.4725
Total	0.1374	1.2220	1.1303	1.9700e-003		0.0591	0.0591		0.0552	0.0552	0.0000	166.4740	166.4740	0.0476	0.0000	167.4725

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	0.0360	0.2627	0.5269	1.2000e-003	0.0344	5.2000e-003	0.0396	9.8200e-003	4.7900e-003	0.0146	0.0000	102.0861	102.0861	7.7000e-004	0.0000	102.1022
Worker	0.2310	0.3342	3.5071	0.0125	1.0198	7.9500e-003	1.0277	0.2708	7.3700e-003	0.2782	0.0000	790.2381	790.2381	0.0358	0.0000	790.9898
Total	0.2670	0.5969	4.0340	0.0137	1.0542	0.0132	1.0674	0.2807	0.0122	0.2928	0.0000	892.3242	892.3242	0.0366	0.0000	893.0921

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	0.0626	0.3203	1.2337	1.9700e-003		0.0127	0.0127		0.0127	0.0127	0.0000	166.4738	166.4738	0.0476	0.0000	167.4723
Total	0.0626	0.3203	1.2337	1.9700e-003		0.0127	0.0127		0.0127	0.0127	0.0000	166.4738	166.4738	0.0476	0.0000	167.4723

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	0.0360	0.2627	0.5269	1.2000e-003	0.0344	5.2000e-003	0.0396	9.8200e-003	4.7900e-003	0.0146	0.0000	102.0861	102.0861	7.7000e-004	0.0000	102.1022
Worker	0.2310	0.3342	3.5071	0.0125	1.0198	7.9500e-003	1.0277	0.2708	7.3700e-003	0.2782	0.0000	790.2381	790.2381	0.0358	0.0000	790.9898
Total	0.2670	0.5969	4.0340	0.0137	1.0542	0.0132	1.0674	0.2807	0.0122	0.2928	0.0000	892.3242	892.3242	0.0366	0.0000	893.0921

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0304	0.2698	0.2668	4.7000e-004		0.0123	0.0123		0.0115	0.0115	0.0000	39.7140	39.7140	0.0113	0.0000	39.9509
Total	0.0304	0.2698	0.2668	4.7000e-004		0.0123	0.0123		0.0115	0.0115	0.0000	39.7140	39.7140	0.0113	0.0000	39.9509

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	7.9600e-003	0.0498	0.1209	2.9000e-004	8.2100e-003	1.2200e-003	9.4300e-003	2.3400e-003	1.1300e-003	3.4700e-003	0.0000	24.2266	24.2266	1.6000e-004	0.0000	24.2300
Worker	0.0522	0.0750	0.7879	2.9800e-003	0.2432	1.8900e-003	0.2451	0.0646	1.7600e-003	0.0663	0.0000	185.5377	185.5377	8.2000e-003	0.0000	185.7099
Total	0.0601	0.1248	0.9087	3.2700e-003	0.2514	3.1100e-003	0.2545	0.0669	2.8900e-003	0.0698	0.0000	209.7643	209.7643	8.3600e-003	0.0000	209.9400

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	0.0142	0.0751	0.2936	4.7000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	39.7139	39.7139	0.0113	0.0000	39.9509
Total	0.0142	0.0751	0.2936	4.7000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	39.7139	39.7139	0.0113	0.0000	39.9509

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	7.9600e-003	0.0498	0.1209	2.9000e-004	8.2100e-003	1.2200e-003	9.4300e-003	2.3400e-003	1.1300e-003	3.4700e-003	0.0000	24.2266	24.2266	1.6000e-004	0.0000	24.2300
Worker	0.0522	0.0750	0.7879	2.9800e-003	0.2432	1.8900e-003	0.2451	0.0646	1.7600e-003	0.0663	0.0000	185.5377	185.5377	8.2000e-003	0.0000	185.7099
Total	0.0601	0.1248	0.9087	3.2700e-003	0.2514	3.1100e-003	0.2545	0.0669	2.8900e-003	0.0698	0.0000	209.7643	209.7643	8.3600e-003	0.0000	209.9400

3.5 Paving - 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	0.0275	0.2607	0.2966	4.3000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	37.4111	37.4111	0.0118	0.0000	37.6587
Paving	3.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0278	0.2607	0.2966	4.3000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	37.4111	37.4111	0.0118	0.0000	37.6587

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-003	5.0400e-003	0.0529	2.0000e-004	0.0163	1.3000e-004	0.0165	4.3400e-003	1.2000e-004	4.4500e-003	0.0000	12.4557	12.4557	5.5000e-004	0.0000	12.4672
Total	3.5000e-003	5.0400e-003	0.0529	2.0000e-004	0.0163	1.3000e-004	0.0165	4.3400e-003	1.2000e-004	4.4500e-003	0.0000	12.4557	12.4557	5.5000e-004	0.0000	12.4672

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8400e-003	0.0332	0.3193	4.3000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	37.4111	37.4111	0.0118	0.0000	37.6586
Paving	3.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.1400e-003	0.0332	0.3193	4.3000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	37.4111	37.4111	0.0118	0.0000	37.6586

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-003	5.0400e-003	0.0529	2.0000e-004	0.0163	1.3000e-004	0.0165	4.3400e-003	1.2000e-004	4.4500e-003	0.0000	12.4557	12.4557	5.5000e-004	0.0000	12.4672
Total	3.5000e-003	5.0400e-003	0.0529	2.0000e-004	0.0163	1.3000e-004	0.0165	4.3400e-003	1.2000e-004	4.4500e-003	0.0000	12.4557	12.4557	5.5000e-004	0.0000	12.4672

3.6 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	3.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9400e-003	0.0404	0.0561	9.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	7.9151	7.9151	4.7000e-004	0.0000	7.9250
Total	3.0254	0.0404	0.0561	9.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	7.9151	7.9151	4.7000e-004	0.0000	7.9250

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	5.8400e-003	8.3900e-003	0.0882	3.3000e-004	0.0272	2.1000e-004	0.0274	7.2300e-003	2.0000e-004	7.4200e-003	0.0000	20.7595	20.7595	9.2000e-004	0.0000	20.7787
Total	5.8400e-003	8.3900e-003	0.0882	3.3000e-004	0.0272	2.1000e-004	0.0274	7.2300e-003	2.0000e-004	7.4200e-003	0.0000	20.7595	20.7595	9.2000e-004	0.0000	20.7787

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	3.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2000e-004	3.9900e-003	0.0568	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.9151	7.9151	4.7000e-004	0.0000	7.9250
Total	3.0204	3.9900e-003	0.0568	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.9151	7.9151	4.7000e-004	0.0000	7.9250

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	5.8400e-003	8.3900e-003	0.0882	3.3000e-004	0.0272	2.1000e-004	0.0274	7.2300e-003	2.0000e-004	7.4200e-003	0.0000	20.7595	20.7595	9.2000e-004	0.0000	20.7787
Total	5.8400e-003	8.3900e-003	0.0882	3.3000e-004	0.0272	2.1000e-004	0.0274	7.2300e-003	2.0000e-004	7.4200e-003	0.0000	20.7595	20.7595	9.2000e-004	0.0000	20.7787

Appendix D. 1

Construction Emissions – CalEEMod Output (Annual)

Phase 4 Construction Emissions

Harbor UCLA Master Plan- Phase 4 South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	450.00	1000sqft	10.33	450,000.00	0
Hospital	505.10	1000sqft	11.60	505,101.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2014		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	154.00
tblConstructionPhase	NumDays	370.00	283.00
tblConstructionPhase	NumDays	370.00	305.00
tblConstructionPhase	NumDays	35.00	154.00
tblConstructionPhase	NumDays	20.00	162.00
tblConstructionPhase	PhaseEndDate	9/3/2026	1/30/2026

tblConstructionPhase	PhaseEndDate	11/28/2024	11/30/2024
tblConstructionPhase	PhaseEndDate	9/15/2026	8/16/2027
tblConstructionPhase	PhaseStartDate	1/31/2026	7/1/2025
tblConstructionPhase	PhaseStartDate	10/31/2023	11/1/2023
tblConstructionPhase	PhaseStartDate	1/31/2026	1/1/2027
tblGrading	MaterialExported	0.00	22,675.00
tblGrading	MaterialImported	0.00	38,726.00
tblLandUse	LandUseSquareFeet	505,100.00	505,101.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	HaulingTripNumber	7,675.00	12,067.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	536.00
tblTripsAndVMT	WorkerTripNumber	306.00	3,654.00
tblTripsAndVMT	WorkerTripNumber	306.00	3,654.00
tblTripsAndVMT	WorkerTripNumber	61.00	360.00
tblTripsAndVMT	WorkerTripNumber	20.00	118.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.5944	3.1949	7.7632	0.0244	1.9479	0.1301	2.0780	0.6436	0.1203	0.7639	0.0000	1,710.7944	1,710.7944	0.1281	0.0000	1,713.4840
2024	1.5905	5.7166	21.9964	0.0761	5.3783	0.2086	5.5869	1.4309	0.1953	1.6262	0.0000	4,944.9456	4,944.9456	0.3297	0.0000	4,951.8696
2025	10.8372	3.5654	19.4887	0.0748	5.6185	0.1127	5.7312	1.4946	0.1059	1.6005	0.0000	4,703.9823	4,703.9823	0.2237	0.0000	4,708.6805
2026	1.6956	0.3048	1.6530	6.5800e-003	0.4951	9.9100e-003	0.5050	0.1317	9.3200e-003	0.1410	0.0000	409.8643	409.8643	0.0192	0.0000	410.2669
2027	0.1186	0.9101	1.4615	3.0000e-003	0.1049	0.0448	0.1496	0.0279	0.0416	0.0694	0.0000	222.7583	222.7583	0.0461	0.0000	223.7266
Total	14.8362	13.6918	52.3627	0.1849	13.5446	0.5060	14.0507	3.7286	0.4724	4.2010	0.0000	11,992.3449	11,992.3449	0.7468	0.0000	12,008.0277

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					
2023	0.4383	1.4956	7.6819	0.0244	1.6381	0.0447	1.6827	0.4851	0.0418	0.5269	0.0000	1,710.7941	1,710.7941	0.1281	0.0000	1,713.4837
2024	1.3540	3.1350	22.4354	0.0761	5.3783	0.0879	5.4662	1.4309	0.0834	1.5143	0.0000	4,944.9449	4,944.9449	0.3297	0.0000	4,951.8689
2025	10.7548	2.7344	19.6163	0.0748	5.6185	0.0761	5.6946	1.4946	0.0715	1.5661	0.0000	4,703.9820	4,703.9820	0.2237	0.0000	4,708.6803
2026	1.6879	0.2293	1.6638	6.5800e-003	0.4951	6.5600e-003	0.5016	0.1317	6.1600e-003	0.1379	0.0000	409.8643	409.8643	0.0192	0.0000	410.2669
2027	0.0590	0.2420	1.5353	3.0000e-003	0.1049	7.6700e-003	0.1125	0.0279	7.6100e-003	0.0355	0.0000	222.7582	222.7582	0.0461	0.0000	223.7264
Total	14.2940	7.8363	52.9327	0.1849	13.2347	0.2229	13.4576	3.5701	0.2105	3.7806	0.0000	11,992.3434	11,992.3434	0.7468	0.0000	12,008.0262

	ROG	NOx	CO	SO2	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	3.66	42.77	-1.09	0.00	2.29	55.96	4.22	4.25	55.45	10.01	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	Grading	Grading	3/29/2023	10/30/2023	5	154	
2	Building Construction 2	Building Construction	11/1/2023	11/30/2024	5	283	
3	Building Construction 3	Building Construction	12/1/2024	1/30/2026	5	305	
4	Architectural Coating	Architectural Coating	7/1/2025	1/30/2026	5	154	
5	Paving	Paving	1/1/2027	8/16/2027	5	162	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 77

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,432,652; Non-Residential Outdoor: 477,551 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction 2	Air Compressors	2	8.00	78	0.48
Building Construction 2	Cranes	2	7.00	226	0.29
Building Construction 2	Forklifts	2	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Rubber Tired Loaders	1	8.00	199	0.36

Building Construction 2	Tractors/Loaders/Backhoes	8	7.00	97	0.37
Building Construction 2	Welders	3	8.00	46	0.45
Building Construction 3	Air Compressors	1	8.00	78	0.48
Building Construction 3	Cranes	1	7.00	226	0.29
Building Construction 3	Forklifts	0	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 3	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Forklifts	1	8.00	89	0.20
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Paving	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	536.00	2.00	12,067.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	18	3,654.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	6	3,654.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	360.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	118.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 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					
Fugitive Dust					0.5080	0.0000	0.5080	0.2598	0.0000	0.2598	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1346	1.3091	1.3603	1.8800e-003		0.0644	0.0644		0.0592	0.0592	0.0000	165.5026	165.5026	0.0535	0.0000	166.6267
Total	0.1346	1.3091	1.3603	1.8800e-003	0.5080	0.0644	0.5724	0.2598	0.0592	0.3190	0.0000	165.5026	165.5026	0.0535	0.0000	166.6267

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	0.0835	0.7133	1.1270	4.3900e-003	0.1035	0.0229	0.1264	0.0284	0.0211	0.0495	0.0000	374.0851	374.0851	2.6100e-003	0.0000	374.1398
Vendor	9.2000e-004	5.7500e-003	0.0140	3.0000e-005	9.5000e-004	1.4000e-004	1.0900e-003	2.7000e-004	1.3000e-004	4.0000e-004	0.0000	2.7989	2.7989	2.0000e-005	0.0000	2.7993
Worker	0.0971	0.1397	1.4670	5.5500e-003	0.4528	3.5300e-003	0.4563	0.1203	3.2700e-003	0.1235	0.0000	345.4776	345.4776	0.0153	0.0000	345.7984
Total	0.1815	0.8587	2.6080	9.9700e-003	0.5573	0.0266	0.5838	0.1489	0.0245	0.1734	0.0000	722.3616	722.3616	0.0179	0.0000	722.7374

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					0.1981	0.0000	0.1981	0.1013	0.0000	0.1013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.0992	1.2042	1.8800e-003		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	165.5024	165.5024	0.0535	0.0000	166.6265
Total	0.0229	0.0992	1.2042	1.8800e-003	0.1981	3.0500e-003	0.2012	0.1013	3.0500e-003	0.1044	0.0000	165.5024	165.5024	0.0535	0.0000	166.6265

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	0.0835	0.7133	1.1270	4.3900e-003	0.1035	0.0229	0.1264	0.0284	0.0211	0.0495	0.0000	374.0851	374.0851	2.6100e-003	0.0000	374.1398
Vendor	9.2000e-004	5.7500e-003	0.0140	3.0000e-005	9.5000e-004	1.4000e-004	1.0900e-003	2.7000e-004	1.3000e-004	4.0000e-004	0.0000	2.7989	2.7989	2.0000e-005	0.0000	2.7993
Worker	0.0971	0.1397	1.4670	5.5500e-003	0.4528	3.5300e-003	0.4563	0.1203	3.2700e-003	0.1235	0.0000	345.4776	345.4776	0.0153	0.0000	345.7984
Total	0.1815	0.8587	2.6080	9.9700e-003	0.5573	0.0266	0.5838	0.1489	0.0245	0.1734	0.0000	722.3616	722.3616	0.0179	0.0000	722.7374

3.3 Building Construction 2 - 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	0.0732	0.6351	0.6965	1.2100e-003		0.0293	0.0293		0.0276	0.0276	0.0000	103.9677	103.9677	0.0272	0.0000	104.5381
Total	0.0732	0.6351	0.6965	1.2100e-003		0.0293	0.0293		0.0276	0.0276	0.0000	103.9677	103.9677	0.0272	0.0000	104.5381

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	0.0202	0.1261	0.3060	7.2000e-004	0.0208	3.1000e-003	0.0239	5.9300e-003	2.8500e-003	8.7900e-003	0.0000	61.3480	61.3480	4.2000e-004	0.0000	61.3567
Worker	0.1849	0.2658	2.7925	0.0106	0.8619	6.7100e-003	0.8686	0.2289	6.2300e-003	0.2351	0.0000	657.6146	657.6146	0.0291	0.0000	658.2251
Total	0.2050	0.3919	3.0985	0.0113	0.8827	9.8100e-003	0.8925	0.2348	9.0800e-003	0.2439	0.0000	718.9626	718.9626	0.0295	0.0000	719.5818

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	0.0289	0.1457	0.7712	1.2100e-003		5.2200e-003	5.2200e-003		5.2200e-003	5.2200e-003	0.0000	103.9676	103.9676	0.0272	0.0000	104.5380
Total	0.0289	0.1457	0.7712	1.2100e-003		5.2200e-003	5.2200e-003		5.2200e-003	5.2200e-003	0.0000	103.9676	103.9676	0.0272	0.0000	104.5380

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	0.0202	0.1261	0.3060	7.2000e-004	0.0208	3.1000e-003	0.0239	5.9300e-003	2.8500e-003	8.7900e-003	0.0000	61.3480	61.3480	4.2000e-004	0.0000	61.3567
Worker	0.1849	0.2658	2.7925	0.0106	0.8619	6.7100e-003	0.8686	0.2289	6.2300e-003	0.2351	0.0000	657.6146	657.6146	0.0291	0.0000	658.2251
Total	0.2050	0.3919	3.0985	0.0113	0.8827	9.8100e-003	0.8925	0.2348	9.0800e-003	0.2439	0.0000	718.9626	718.9626	0.0295	0.0000	719.5818

3.3 Building Construction 2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3843	3.3095	3.8701	6.7800e-003		0.1438	0.1438		0.1352	0.1352	0.0000	580.4225	580.4225	0.1509	0.0000	583.5913
Total	0.3843	3.3095	3.8701	6.7800e-003		0.1438	0.1438		0.1352	0.1352	0.0000	580.4225	580.4225	0.1509	0.0000	583.5913

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	0.1106	0.7001	1.6738	4.0400e-003	0.1160	0.0173	0.1333	0.0331	0.0159	0.0490	0.0000	343.3339	343.3339	2.3600e-003	0.0000	343.3834
Worker	0.9818	1.4049	14.8178	0.0593	4.8107	0.0379	4.8486	1.2776	0.0351	1.3127	0.0000	3,638.2789	3,638.2789	0.1579	0.0000	3,641.5945
Total	1.0924	2.1051	16.4916	0.0633	4.9267	0.0552	4.9819	1.3107	0.0511	1.3618	0.0000	3,981.6128	3,981.6128	0.1603	0.0000	3,984.9780

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	0.1545	0.7987	4.2990	6.7800e-003		0.0264	0.0264		0.0264	0.0264	0.0000	580.4218	580.4218	0.1509	0.0000	583.5906
Total	0.1545	0.7987	4.2990	6.7800e-003		0.0264	0.0264		0.0264	0.0264	0.0000	580.4218	580.4218	0.1509	0.0000	583.5906

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	0.1106	0.7001	1.6738	4.0400e-003	0.1160	0.0173	0.1333	0.0331	0.0159	0.0490	0.0000	343.3339	343.3339	2.3600e-003	0.0000	343.3834
Worker	0.9818	1.4049	14.8178	0.0593	4.8107	0.0379	4.8486	1.2776	0.0351	1.3127	0.0000	3,638.2789	3,638.2789	0.1579	0.0000	3,641.5945
Total	1.0924	2.1051	16.4916	0.0633	4.9267	0.0552	4.9819	1.3107	0.0511	1.3618	0.0000	3,981.6128	3,981.6128	0.1603	0.0000	3,984.9780

3.4 Building Construction 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0137	0.1091	0.1229	2.1000e-004		4.5900e-003	4.5900e-003		4.3800e-003	4.3800e-003	0.0000	17.9292	17.9292	3.8800e-003	0.0000	18.0107
Total	0.0137	0.1091	0.1229	2.1000e-004		4.5900e-003	4.5900e-003		4.3800e-003	4.3800e-003	0.0000	17.9292	17.9292	3.8800e-003	0.0000	18.0107

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.0642	0.1534	3.7000e-004	0.0106	1.5900e-003	0.0122	3.0300e-003	1.4600e-003	4.5000e-003	0.0000	31.4723	31.4723	2.2000e-004	0.0000	31.4768
Worker	0.0900	0.1288	1.3583	5.4400e-003	0.4410	3.4700e-003	0.4445	0.1171	3.2200e-003	0.1203	0.0000	333.5089	333.5089	0.0145	0.0000	333.8128
Total	0.1001	0.1930	1.5117	5.8100e-003	0.4516	5.0600e-003	0.4567	0.1201	4.6800e-003	0.1248	0.0000	364.9812	364.9812	0.0147	0.0000	365.2896

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	7.0200e-003	0.0383	0.1330	2.1000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	17.9292	17.9292	3.8800e-003	0.0000	18.0107
Total	7.0200e-003	0.0383	0.1330	2.1000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	17.9292	17.9292	3.8800e-003	0.0000	18.0107

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.0642	0.1534	3.7000e-004	0.0106	1.5900e-003	0.0122	3.0300e-003	1.4600e-003	4.5000e-003	0.0000	31.4723	31.4723	2.2000e-004	0.0000	31.4768
Worker	0.0900	0.1288	1.3583	5.4400e-003	0.4410	3.4700e-003	0.4445	0.1171	3.2200e-003	0.1203	0.0000	333.5089	333.5089	0.0145	0.0000	333.8128
Total	0.1001	0.1930	1.5117	5.8100e-003	0.4516	5.0600e-003	0.4567	0.1201	4.6800e-003	0.1248	0.0000	364.9812	364.9812	0.0147	0.0000	365.2896

3.4 Building Construction 3 - 2025

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	0.1522	1.2084	1.4491	2.5400e-003		0.0470	0.0470		0.0448	0.0448	0.0000	212.7670	212.7670	0.0457	0.0000	213.7256
Total	0.1522	1.2084	1.4491	2.5400e-003		0.0470	0.0470		0.0448	0.0448	0.0000	212.7670	212.7670	0.0457	0.0000	213.7256

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	0.1180	0.7561	1.7875	4.4000e-003	0.1261	0.0189	0.1451	0.0360	0.0174	0.0534	0.0000	373.3852	373.3852	2.5700e-003	0.0000	373.4393
Worker	1.0187	1.4529	15.3670	0.0645	5.2316	0.0413	5.2729	1.3894	0.0383	1.4277	0.0000	3,906.3364	3,906.3364	0.1663	0.0000	3,909.8287
Total	1.1367	2.2090	17.1545	0.0689	5.3578	0.0602	5.4180	1.4254	0.0557	1.4811	0.0000	4,279.7216	4,279.7216	0.1689	0.0000	4,283.2680

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	0.0791	0.4446	1.5752	2.5400e-003		0.0136	0.0136		0.0136	0.0136	0.0000	212.7667	212.7667	0.0457	0.0000	213.7253
Total	0.0791	0.4446	1.5752	2.5400e-003		0.0136	0.0136		0.0136	0.0136	0.0000	212.7667	212.7667	0.0457	0.0000	213.7253

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	0.1180	0.7561	1.7875	4.4000e-003	0.1261	0.0189	0.1451	0.0360	0.0174	0.0534	0.0000	373.3852	373.3852	2.5700e-003	0.0000	373.4393
Worker	1.0187	1.4529	15.3670	0.0645	5.2316	0.0413	5.2729	1.3894	0.0383	1.4277	0.0000	3,906.3364	3,906.3364	0.1663	0.0000	3,909.8287
Total	1.1367	2.2090	17.1545	0.0689	5.3578	0.0602	5.4180	1.4254	0.0557	1.4811	0.0000	4,279.7216	4,279.7216	0.1689	0.0000	4,283.2680

3.4 Building Construction 3 - 2026

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	0.0128	0.1019	0.1221	2.1000e-004		3.9600e-003	3.9600e-003		3.7800e-003	3.7800e-003	0.0000	17.9344	17.9344	3.8500e-003	0.0000	18.0152
Total	0.0128	0.1019	0.1221	2.1000e-004		3.9600e-003	3.9600e-003		3.7800e-003	3.7800e-003	0.0000	17.9344	17.9344	3.8500e-003	0.0000	18.0152

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6300e-003	0.0618	0.1479	3.7000e-004	0.0106	1.5300e-003	0.0122	3.0400e-003	1.4100e-003	4.4400e-003	0.0000	31.4660	31.4660	2.1000e-004	0.0000	31.4704
Worker	0.0821	0.1170	1.2408	5.4300e-003	0.4410	3.5000e-003	0.4445	0.1171	3.2500e-003	0.1204	0.0000	325.5787	325.5787	0.0136	0.0000	325.8647
Total	0.0918	0.1788	1.3887	5.8000e-003	0.4516	5.0300e-003	0.4566	0.1202	4.6600e-003	0.1248	0.0000	357.0446	357.0446	0.0138	0.0000	357.3350

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6700e-003	0.0375	0.1328	2.1000e-004		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	17.9344	17.9344	3.8500e-003	0.0000	18.0152
Total	6.6700e-003	0.0375	0.1328	2.1000e-004		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	17.9344	17.9344	3.8500e-003	0.0000	18.0152

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6300e-003	0.0618	0.1479	3.7000e-004	0.0106	1.5300e-003	0.0122	3.0400e-003	1.4100e-003	4.4400e-003	0.0000	31.4660	31.4660	2.1000e-004	0.0000	31.4704
Worker	0.0821	0.1170	1.2408	5.4300e-003	0.4410	3.5000e-003	0.4445	0.1171	3.2500e-003	0.1204	0.0000	325.5787	325.5787	0.0136	0.0000	325.8647
Total	0.0918	0.1788	1.3887	5.8000e-003	0.4516	5.0300e-003	0.4566	0.1202	4.6600e-003	0.1248	0.0000	357.0446	357.0446	0.0138	0.0000	357.3350

3.5 Architectural Coating - 2025

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	9.4862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0756	0.1194	2.0000e-004		3.4000e-003	3.4000e-003		3.4000e-003	3.4000e-003	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8708
Total	9.4975	0.0756	0.1194	2.0000e-004		3.4000e-003	3.4000e-003		3.4000e-003	3.4000e-003	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8708

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	0.0508	0.0724	0.7657	3.2100e-003	0.2607	2.0600e-003	0.2627	0.0692	1.9100e-003	0.0711	0.0000	194.6422	194.6422	8.2900e-003	0.0000	194.8162
Total	0.0508	0.0724	0.7657	3.2100e-003	0.2607	2.0600e-003	0.2627	0.0692	1.9100e-003	0.0711	0.0000	194.6422	194.6422	8.2900e-003	0.0000	194.8162

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	9.4862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	8.5000e-003	0.1209	2.0000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8708
Total	9.4882	8.5000e-003	0.1209	2.0000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8708

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0508	0.0724	0.7657	3.2100e-003	0.2607	2.0600e-003	0.2627	0.0692	1.9100e-003	0.0711	0.0000	194.6422	194.6422	8.2900e-003	0.0000	194.8162
Total	0.0508	0.0724	0.7657	3.2100e-003	0.2607	2.0600e-003	0.2627	0.0692	1.9100e-003	0.0711	0.0000	194.6422	194.6422	8.2900e-003	0.0000	194.8162

3.5 Architectural Coating - 2026

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	1.5810					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8800e-003	0.0126	0.0199	3.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	2.8086	2.8086	1.5000e-004	0.0000	2.8118
Total	1.5829	0.0126	0.0199	3.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	2.8086	2.8086	1.5000e-004	0.0000	2.8118

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	8.0900e-003	0.0115	0.1222	5.4000e-004	0.0435	3.4000e-004	0.0438	0.0115	3.2000e-004	0.0119	0.0000	32.0767	32.0767	1.3400e-003	0.0000	32.1049
Total	8.0900e-003	0.0115	0.1222	5.4000e-004	0.0435	3.4000e-004	0.0438	0.0115	3.2000e-004	0.0119	0.0000	32.0767	32.0767	1.3400e-003	0.0000	32.1049

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	1.5810					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-004	1.4200e-003	0.0202	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.8086	2.8086	1.5000e-004	0.0000	2.8118
Total	1.5814	1.4200e-003	0.0202	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.8086	2.8086	1.5000e-004	0.0000	2.8118

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	8.0900e-003	0.0115	0.1222	5.4000e-004	0.0435	3.4000e-004	0.0438	0.0115	3.2000e-004	0.0119	0.0000	32.0767	32.0767	1.3400e-003	0.0000	32.1049
Total	8.0900e-003	0.0115	0.1222	5.4000e-004	0.0435	3.4000e-004	0.0438	0.0115	3.2000e-004	0.0119	0.0000	32.0767	32.0767	1.3400e-003	0.0000	32.1049

3.6 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0999	0.8834	1.1779	1.7100e-003		0.0439	0.0439		0.0408	0.0408	0.0000	146.1027	146.1027	0.0430	0.0000	147.0048
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0999	0.8834	1.1779	1.7100e-003		0.0439	0.0439		0.0408	0.0408	0.0000	146.1027	146.1027	0.0430	0.0000	147.0048

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	0.0187	0.0267	0.2836	1.2900e-003	0.1049	8.4000e-004	0.1057	0.0279	7.8000e-004	0.0286	0.0000	76.6556	76.6556	3.1500e-003	0.0000	76.7218
Total	0.0187	0.0267	0.2836	1.2900e-003	0.1049	8.4000e-004	0.1057	0.0279	7.8000e-004	0.0286	0.0000	76.6556	76.6556	3.1500e-003	0.0000	76.7218

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	0.0403	0.2153	1.2518	1.7100e-003		6.8300e-003	6.8300e-003		6.8300e-003	6.8300e-003	0.0000	146.1025	146.1025	0.0430	0.0000	147.0046
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0403	0.2153	1.2518	1.7100e-003		6.8300e-003	6.8300e-003		6.8300e-003	6.8300e-003	0.0000	146.1025	146.1025	0.0430	0.0000	147.0046

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0187	0.0267	0.2836	1.2900e-003	0.1049	8.4000e-004	0.1057	0.0279	7.8000e-004	0.0286	0.0000	76.6556	76.6556	3.1500e-003	0.0000	76.7218
Total	0.0187	0.0267	0.2836	1.2900e-003	0.1049	8.4000e-004	0.1057	0.0279	7.8000e-004	0.0286	0.0000	76.6556	76.6556	3.1500e-003	0.0000	76.7218

Appendix D. 1

Construction Emissions – CalEEMod Output (Annual)

Phase 5 Construction Emissions

Harbor UCLA Master Plan- Phase V South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	234.00	1000sqft	5.37	234,000.00	0
Parking Lot	570.00	Space	5.13	104,005.00	0
Unenclosed Parking with Elevator	1,220.00	Space	10.98	551,150.00	0
User Defined Retail	35,000.00	User Defined Unit	0.00	35,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2014
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating - See Input Summary

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	411,635.00	298,289.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,234,905.00	442,809.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	276.00

tblConstructionPhase	NumDays	370.00	173.00
tblConstructionPhase	NumDays	370.00	107.00
tblConstructionPhase	NumDays	370.00	455.00
tblConstructionPhase	NumDays	370.00	260.00
tblConstructionPhase	NumDays	370.00	86.00
tblConstructionPhase	NumDays	370.00	146.00
tblConstructionPhase	NumDays	35.00	173.00
tblConstructionPhase	NumDays	20.00	80.00
tblConstructionPhase	PhaseEndDate	6/20/2030	4/22/2030
tblConstructionPhase	PhaseEndDate	12/1/2025	4/2/2025
tblConstructionPhase	PhaseEndDate	8/29/2025	8/30/2025
tblConstructionPhase	PhaseEndDate	5/28/2027	5/30/2027
tblConstructionPhase	PhaseEndDate	5/26/2028	5/30/2029
tblConstructionPhase	PhaseEndDate	8/20/2030	9/30/2029
tblConstructionPhase	PhaseEndDate	8/12/2030	4/22/2030
tblConstructionPhase	PhaseStartDate	5/31/2029	4/1/2029
tblConstructionPhase	PhaseStartDate	4/3/2025	8/5/2024
tblConstructionPhase	PhaseStartDate	8/31/2025	9/1/2025
tblConstructionPhase	PhaseStartDate	5/31/2027	6/1/2028
tblConstructionPhase	PhaseStartDate	4/23/2030	6/1/2029
tblConstructionPhase	PhaseStartDate	4/23/2030	1/1/2030
tblGrading	MaterialExported	0.00	10,675.00
tblGrading	MaterialImported	0.00	73,803.00
tblLandUse	LandUseSquareFeet	228,000.00	104,005.00
tblLandUse	LandUseSquareFeet	488,000.00	551,150.00
tblLandUse	LandUseSquareFeet	0.00	35,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	10,560.00	14,080.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	WorkerTripNumber	18.00	486.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	72.00	92.00
tblTripsAndVMT	WorkerTripNumber	361.00	465.00
tblTripsAndVMT	WorkerTripNumber	361.00	465.00
tblTripsAndVMT	WorkerTripNumber	20.00	26.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.5264	2.5285	7.2277	0.0241	1.4895	0.0929	1.5823	0.3960	0.0864	0.4824	0.0000	1,672.2767	1,672.2767	0.1150	0.0000	1,674.6916
2025	0.7968	2.8739	11.7214	0.0422	2.9407	0.0944	3.0351	0.7822	0.0875	0.8697	0.0000	2,774.8027	2,774.8027	0.1533	0.0000	2,778.0213
2026	0.6248	1.7989	9.4974	0.0364	2.6571	0.0559	2.7130	0.7081	0.0516	0.7597	0.0000	2,314.9146	2,314.9146	0.1066	0.0000	2,317.1533
2027	0.2452	0.7169	3.7374	0.0148	1.0792	0.0228	1.1019	0.2876	0.0210	0.3086	0.0000	932.6472	932.6472	0.0425	0.0000	933.5390
2028	0.4192	1.6780	5.8030	0.0229	1.5465	0.0572	1.6038	0.4121	0.0530	0.4651	0.0000	1,472.6960	1,472.6960	0.1042	0.0000	1,474.8845
2029	3.5549	2.3512	6.8957	0.0261	1.6567	0.0835	1.7401	0.4424	0.0777	0.5201	0.0000	1,721.0970	1,721.0970	0.1167	0.0000	1,723.5484
2030	1.4096	0.7576	2.0614	6.1600e-003	0.2930	0.0241	0.3172	0.0786	0.0236	0.1021	0.0000	440.0121	440.0121	0.0148	0.0000	440.3230

Total	7.5770	12.7049	46.9441	0.1726	11.6627	0.4307	12.0934	3.1069	0.4007	3.5077	0.0000	11,328.44	11,328.446	0.6531	0.0000	11,342.16
												63	3			11

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					
2024	0.4244	1.4244	7.4507	0.0241	1.4866	0.0414	1.5280	0.3956	0.0388	0.4343	0.0000	1,672.2765	1,672.2765	0.1150	0.0000	1,674.6913
2025	0.7164	1.9792	11.8894	0.0422	2.9378	0.0554	2.9932	0.7817	0.0515	0.8333	0.0000	2,774.8024	2,774.8024	0.1533	0.0000	2,778.0211
2026	0.5945	1.4354	9.5267	0.0364	2.6571	0.0393	2.6964	0.7081	0.0364	0.7445	0.0000	2,314.9145	2,314.9145	0.1066	0.0000	2,317.1532
2027	0.2328	0.5693	3.7493	0.0148	1.0792	0.0160	1.0952	0.2876	0.0148	0.3024	0.0000	932.6472	932.6472	0.0425	0.0000	933.5390
2028	0.3570	0.9753	6.0870	0.0229	1.5465	0.0284	1.5749	0.4121	0.0267	0.4389	0.0000	1,472.6958	1,472.6958	0.1042	0.0000	1,474.8843
2029	3.4527	1.2687	7.1986	0.0261	1.6567	0.0364	1.6931	0.4424	0.0341	0.4765	0.0000	1,721.0967	1,721.0967	0.1167	0.0000	1,723.5481
2030	1.3429	0.3562	2.1155	6.1600e-003	0.2930	0.0102	0.3033	0.0786	9.6500e-003	0.0882	0.0000	440.0119	440.0119	0.0148	0.0000	440.3229
Total	7.1208	8.0086	48.0171	0.1726	11.6569	0.2272	11.8840	3.1061	0.2121	3.3181	0.0000	11,328.44	11,328.444	0.6531	0.0000	11,342.15
												49	9			97

	ROG	NOx	CO	SO2	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	6.02	36.96	-2.29	0.00	0.05	47.26	1.73	0.03	47.08	5.40	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	Grading	Grading	8/5/2024	4/2/2025	5	173	
2	Building Construction	Building Construction	8/5/2024	4/2/2025	5	173	
3	Building Construction 2	Building Construction	4/3/2025	8/30/2025	5	107	
4	Building Construction 3	Building Construction	9/1/2025	5/30/2027	5	455	

5	Building Construction 4	Building Construction	6/1/2028	5/30/2029	5	260
6	Architectural Coating	Architectural Coating	4/1/2029	4/22/2030	5	276
7	Building Construction 5	Building Construction	6/1/2029	9/30/2029	5	86
8	Building Construction 6	Building Construction	10/1/2029	4/22/2030	5	146
9	Paving	Paving	1/1/2030	4/22/2030	5	80

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 442,809; Non-Residential Outdoor: 298,289 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Air Compressors	2	8.00	78	0.48
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Scrapers	0	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Building Construction 2	Cranes	0	7.00	226	0.29
Building Construction 2	Forklifts	0	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	0	8.00	46	0.45

Building Construction 3	Cranes	0	7.00	226	0.29
Building Construction 3	Forklifts	1	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 3	Welders	0	8.00	46	0.45
Building Construction 4	Cranes	1	7.00	226	0.29
Building Construction 4	Forklifts	1	8.00	89	0.20
Building Construction 4	Generator Sets	0	8.00	84	0.74
Building Construction 4	Rubber Tired Loaders	2	8.00	199	0.36
Building Construction 4	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 4	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction 5	Air Compressors	1	8.00	78	0.48
Building Construction 5	Cranes	2	7.00	226	0.29
Building Construction 5	Forklifts	1	8.00	89	0.20
Building Construction 5	Generator Sets	0	8.00	84	0.74
Building Construction 5	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction 5	Welders	0	8.00	46	0.45
Building Construction 6	Cranes	1	7.00	226	0.29
Building Construction 6	Forklifts	1	8.00	89	0.20
Building Construction 6	Generator Sets	0	8.00	84	0.74
Building Construction 6	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction 6	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Trenchers	2	8.00	80	0.50

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	7	486.00	4.00	14,080.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	1,770.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	3	1,770.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	3	1,770.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 4	8	1,770.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	92.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 5	5	465.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 6	3	465.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	26.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Clean Paved Roads

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7800e-003	0.0000	4.7800e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0721	0.6054	0.8746	1.5400e-003		0.0272	0.0272		0.0258	0.0258	0.0000	134.0685	134.0685	0.0336	0.0000	134.7748
Total	0.0721	0.6054	0.8746	1.5400e-003	4.7800e-003	0.0272	0.0320	7.2000e-004	0.0258	0.0265	0.0000	134.0685	134.0685	0.0336	0.0000	134.7748

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	0.0604	0.5149	0.8064	3.1700e-003	0.1094	0.0165	0.1260	0.0290	0.0152	0.0442	0.0000	270.6652	270.6652	1.9100e-003	0.0000	270.7053
Vendor	1.2600e-003	7.9500e-003	0.0190	5.0000e-005	1.3200e-003	2.0000e-004	1.5100e-003	3.8000e-004	1.8000e-004	5.6000e-004	0.0000	3.8999	3.8999	3.0000e-005	0.0000	3.9004
Worker	0.0582	0.0833	0.8787	3.5200e-003	0.2853	2.2400e-003	0.2875	0.0758	2.0800e-003	0.0778	0.0000	215.7428	215.7428	9.3600e-003	0.0000	215.9394
Total	0.1199	0.6062	1.7041	6.7400e-003	0.3960	0.0190	0.4150	0.1052	0.0175	0.1226	0.0000	490.3078	490.3078	0.0113	0.0000	490.5452

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					1.8600e-003	0.0000	1.8600e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0179	0.0775	1.0010	1.5400e-003		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	134.0684	134.0684	0.0336	0.0000	134.7746
Total	0.0179	0.0775	1.0010	1.5400e-003	1.8600e-003	2.3800e-003	4.2400e-003	2.8000e-004	2.3800e-003	2.6600e-003	0.0000	134.0684	134.0684	0.0336	0.0000	134.7746

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	0.0604	0.5149	0.8064	3.1700e-003	0.1094	0.0165	0.1260	0.0290	0.0152	0.0442	0.0000	270.6652	270.6652	1.9100e-003	0.0000	270.7053
Vendor	1.2600e-003	7.9500e-003	0.0190	5.0000e-005	1.3200e-003	2.0000e-004	1.5100e-003	3.8000e-004	1.8000e-004	5.6000e-004	0.0000	3.8999	3.8999	3.0000e-005	0.0000	3.9004
Worker	0.0582	0.0833	0.8787	3.5200e-003	0.2853	2.2400e-003	0.2875	0.0758	2.0800e-003	0.0778	0.0000	215.7428	215.7428	9.3600e-003	0.0000	215.9394
Total	0.1199	0.6062	1.7041	6.7400e-003	0.3960	0.0190	0.4150	0.1052	0.0175	0.1226	0.0000	490.3078	490.3078	0.0113	0.0000	490.5452

3.2 Grading - 2025

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					4.7800e-003	0.0000	4.7800e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0412	0.3344	0.5378	9.5000e-004		0.0139	0.0139		0.0132	0.0132	0.0000	82.7278	82.7278	0.0207	0.0000	83.1628
Total	0.0412	0.3344	0.5378	9.5000e-004	4.7800e-003	0.0139	0.0187	7.2000e-004	0.0132	0.0139	0.0000	82.7278	82.7278	0.0207	0.0000	83.1628

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	0.0370	0.3168	0.4930	1.9600e-003	0.1024	0.0103	0.1127	0.0265	9.4300e-003	0.0359	0.0000	166.9578	166.9578	1.1900e-003	0.0000	166.9828
Vendor	7.6000e-004	4.8700e-003	0.0115	3.0000e-005	8.1000e-004	1.2000e-004	9.3000e-004	2.3000e-004	1.1000e-004	3.4000e-004	0.0000	2.4056	2.4056	2.0000e-005	0.0000	2.4059
Worker	0.0343	0.0489	0.5169	2.1700e-003	0.1760	1.3900e-003	0.1774	0.0467	1.2900e-003	0.0480	0.0000	131.3835	131.3835	5.5900e-003	0.0000	131.5010
Total	0.0720	0.3705	1.0214	4.1600e-003	0.2792	0.0118	0.2910	0.0734	0.0108	0.0843	0.0000	300.7469	300.7469	6.8000e-003	0.0000	300.8896

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					1.8600e-003	0.0000	1.8600e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0478	0.6174	9.5000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	82.7277	82.7277	0.0207	0.0000	83.1628
Total	0.0110	0.0478	0.6174	9.5000e-004	1.8600e-003	1.4700e-003	3.3300e-003	2.8000e-004	1.4700e-003	1.7500e-003	0.0000	82.7277	82.7277	0.0207	0.0000	83.1628

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	0.0370	0.3168	0.4930	1.9600e-003	0.1024	0.0103	0.1127	0.0265	9.4300e-003	0.0359	0.0000	166.9578	166.9578	1.1900e-003	0.0000	166.9828
Vendor	7.6000e-004	4.8700e-003	0.0115	3.0000e-005	8.1000e-004	1.2000e-004	9.3000e-004	2.3000e-004	1.1000e-004	3.4000e-004	0.0000	2.4056	2.4056	2.0000e-005	0.0000	2.4059
Worker	0.0343	0.0489	0.5169	2.1700e-003	0.1760	1.3900e-003	0.1774	0.0467	1.2900e-003	0.0480	0.0000	131.3835	131.3835	5.5900e-003	0.0000	131.5010
Total	0.0720	0.3705	1.0214	4.1600e-003	0.2792	0.0118	0.2910	0.0734	0.0108	0.0843	0.0000	300.7469	300.7469	6.8000e-003	0.0000	300.8896

3.3 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0750	0.7133	0.7311	1.3300e-003		0.0311	0.0311		0.0288	0.0288	0.0000	114.9507	114.9507	0.0350	0.0000	115.6846
Total	0.0750	0.7133	0.7311	1.3300e-003		0.0311	0.0311		0.0288	0.0288	0.0000	114.9507	114.9507	0.0350	0.0000	115.6846

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	0.0474	0.3002	0.7177	1.7300e-003	0.0497	7.4300e-003	0.0572	0.0142	6.8300e-003	0.0210	0.0000	147.2199	147.2199	1.0100e-003	0.0000	147.2411
Worker	0.2120	0.3034	3.2001	0.0128	1.0389	8.1700e-003	1.0471	0.2759	7.5800e-003	0.2835	0.0000	785.7298	785.7298	0.0341	0.0000	786.4459
Total	0.2594	0.6036	3.9178	0.0145	1.0887	0.0156	1.1043	0.2901	0.0144	0.3045	0.0000	932.9497	932.9497	0.0351	0.0000	933.6870

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	0.0272	0.1372	0.8278	1.3300e-003		4.4900e-003	4.4900e-003		4.4900e-003	4.4900e-003	0.0000	114.9505	114.9505	0.0350	0.0000	115.6845
Total	0.0272	0.1372	0.8278	1.3300e-003		4.4900e-003	4.4900e-003		4.4900e-003	4.4900e-003	0.0000	114.9505	114.9505	0.0350	0.0000	115.6845

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	0.0474	0.3002	0.7177	1.7300e-003	0.0497	7.4300e-003	0.0572	0.0142	6.8300e-003	0.0210	0.0000	147.2199	147.2199	1.0100e-003	0.0000	147.2411
Worker	0.2120	0.3034	3.2001	0.0128	1.0389	8.1700e-003	1.0471	0.2759	7.5800e-003	0.2835	0.0000	785.7298	785.7298	0.0341	0.0000	786.4459
Total	0.2594	0.6036	3.9178	0.0145	1.0887	0.0156	1.1043	0.2901	0.0144	0.3045	0.0000	932.9497	932.9497	0.0351	0.0000	933.6870

3.3 Building Construction - 2025

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	0.0431	0.4045	0.4476	8.2000e-004		0.0167	0.0167		0.0154	0.0154	0.0000	70.9354	70.9354	0.0215	0.0000	71.3874
Total	0.0431	0.4045	0.4476	8.2000e-004		0.0167	0.0167		0.0154	0.0154	0.0000	70.9354	70.9354	0.0215	0.0000	71.3874

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	0.0287	0.1839	0.4347	1.0700e-003	0.0307	4.6000e-003	0.0353	8.7600e-003	4.2400e-003	0.0130	0.0000	90.8109	90.8109	6.3000e-004	0.0000	90.8240
Worker	0.1248	0.1780	1.8823	7.9000e-003	0.6408	5.0600e-003	0.6459	0.1702	4.6900e-003	0.1749	0.0000	478.4954	478.4954	0.0204	0.0000	478.9232
Total	0.1535	0.3619	2.3171	8.9700e-003	0.6715	9.6600e-003	0.6812	0.1790	8.9300e-003	0.1879	0.0000	569.3063	569.3063	0.0210	0.0000	569.7472

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	0.0163	0.0834	0.5102	8.2000e-004		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	70.9353	70.9353	0.0215	0.0000	71.3873
Total	0.0163	0.0834	0.5102	8.2000e-004		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	70.9353	70.9353	0.0215	0.0000	71.3873

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	0.0287	0.1839	0.4347	1.0700e-003	0.0307	4.6000e-003	0.0353	8.7600e-003	4.2400e-003	0.0130	0.0000	90.8109	90.8109	6.3000e-004	0.0000	90.8240
Worker	0.1248	0.1780	1.8823	7.9000e-003	0.6408	5.0600e-003	0.6459	0.1702	4.6900e-003	0.1749	0.0000	478.4954	478.4954	0.0204	0.0000	478.9232
Total	0.1535	0.3619	2.3171	8.9700e-003	0.6715	9.6600e-003	0.6812	0.1790	8.9300e-003	0.1879	0.0000	569.3063	569.3063	0.0210	0.0000	569.7472

3.4 Building Construction 2 - 2025

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	0.0186	0.1875	0.3131	4.4000e-004		7.6000e-003	7.6000e-003		6.9900e-003	6.9900e-003	0.0000	38.4828	38.4828	0.0125	0.0000	38.7441
Total	0.0186	0.1875	0.3131	4.4000e-004		7.6000e-003	7.6000e-003		6.9900e-003	6.9900e-003	0.0000	38.4828	38.4828	0.0125	0.0000	38.7441

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	0.0471	0.3021	0.7141	1.7600e-003	0.0504	7.5600e-003	0.0580	0.0144	6.9600e-003	0.0213	0.0000	149.1737	149.1737	1.0300e-003	0.0000	149.1953
Worker	0.2023	0.2885	3.0517	0.0128	1.0389	8.2000e-003	1.0471	0.2759	7.6100e-003	0.2835	0.0000	775.7426	775.7426	0.0330	0.0000	776.4361
Total	0.2494	0.5906	3.7658	0.0146	1.0893	0.0158	1.1051	0.2903	0.0146	0.3049	0.0000	924.9163	924.9163	0.0341	0.0000	925.6314

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	5.3300e-003	0.0231	0.3289	4.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	38.4827	38.4827	0.0125	0.0000	38.7441
Total	5.3300e-003	0.0231	0.3289	4.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	38.4827	38.4827	0.0125	0.0000	38.7441

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	0.0471	0.3021	0.7141	1.7600e-003	0.0504	7.5600e-003	0.0580	0.0144	6.9600e-003	0.0213	0.0000	149.1737	149.1737	1.0300e-003	0.0000	149.1953
Worker	0.2023	0.2885	3.0517	0.0128	1.0389	8.2000e-003	1.0471	0.2759	7.6100e-003	0.2835	0.0000	775.7426	775.7426	0.0330	0.0000	776.4361
Total	0.2494	0.5906	3.7658	0.0146	1.0893	0.0158	1.1051	0.2903	0.0146	0.3049	0.0000	924.9163	924.9163	0.0341	0.0000	925.6314

3.5 Building Construction 3 - 2025

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	0.0140	0.1388	0.2216	3.1000e-004		6.0900e-003	6.0900e-003		5.6100e-003	5.6100e-003	0.0000	27.0084	27.0084	8.7400e-003	0.0000	27.1918
Total	0.0140	0.1388	0.2216	3.1000e-004		6.0900e-003	6.0900e-003		5.6100e-003	5.6100e-003	0.0000	27.0084	27.0084	8.7400e-003	0.0000	27.1918

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	0.0388	0.2484	0.5873	1.4400e-003	0.0415	6.2200e-003	0.0477	0.0118	5.7200e-003	0.0176	0.0000	122.6849	122.6849	8.5000e-004	0.0000	122.7026
Worker	0.1664	0.2373	2.5098	0.0105	0.8545	6.7400e-003	0.8612	0.2269	6.2600e-003	0.2332	0.0000	637.9939	637.9939	0.0272	0.0000	638.5643
Total	0.2051	0.4857	3.0971	0.0120	0.8959	0.0130	0.9089	0.2388	0.0120	0.2507	0.0000	760.6788	760.6788	0.0280	0.0000	761.2669

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	3.7500e-003	0.0163	0.2315	3.1000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	27.0084	27.0084	8.7400e-003	0.0000	27.1918
Total	3.7500e-003	0.0163	0.2315	3.1000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	27.0084	27.0084	8.7400e-003	0.0000	27.1918

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	0.0388	0.2484	0.5873	1.4400e-003	0.0415	6.2200e-003	0.0477	0.0118	5.7200e-003	0.0176	0.0000	122.6849	122.6849	8.5000e-004	0.0000	122.7026
Worker	0.1664	0.2373	2.5098	0.0105	0.8545	6.7400e-003	0.8612	0.2269	6.2600e-003	0.2332	0.0000	637.9939	637.9939	0.0272	0.0000	638.5643
Total	0.2051	0.4857	3.0971	0.0120	0.8959	0.0130	0.9089	0.2388	0.0120	0.2507	0.0000	760.6788	760.6788	0.0280	0.0000	761.2669

3.5 Building Construction 3 - 2026

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	0.0415	0.4117	0.6572	9.1000e-004		0.0181	0.0181		0.0166	0.0166	0.0000	80.1044	80.1044	0.0259	0.0000	80.6485
Total	0.0415	0.4117	0.6572	9.1000e-004		0.0181	0.0181		0.0166	0.0166	0.0000	80.1044	80.1044	0.0259	0.0000	80.6485

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	0.1113	0.7147	1.7098	4.2800e-003	0.1229	0.0177	0.1406	0.0351	0.0163	0.0514	0.0000	363.7899	363.7899	2.4300e-003	0.0000	363.8410
Worker	0.4720	0.6725	7.1304	0.0312	2.5342	0.0201	2.5543	0.6730	0.0187	0.6917	0.0000	1,871.0202	1,871.0202	0.0783	0.0000	1,872.6638
Total	0.5833	1.3872	8.8402	0.0355	2.6571	0.0378	2.6949	0.7081	0.0349	0.7430	0.0000	2,234.8101	2,234.8101	0.0807	0.0000	2,236.5048

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	0.0111	0.0482	0.6865	9.1000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	80.1043	80.1043	0.0259	0.0000	80.6484
Total	0.0111	0.0482	0.6865	9.1000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	80.1043	80.1043	0.0259	0.0000	80.6484

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	0.1113	0.7147	1.7098	4.2800e-003	0.1229	0.0177	0.1406	0.0351	0.0163	0.0514	0.0000	363.7899	363.7899	2.4300e-003	0.0000	363.8410
Worker	0.4720	0.6725	7.1304	0.0312	2.5342	0.0201	2.5543	0.6730	0.0187	0.6917	0.0000	1,871.0202	1,871.0202	0.0783	0.0000	1,872.6638
Total	0.5833	1.3872	8.8402	0.0355	2.6571	0.0378	2.6949	0.7081	0.0349	0.7430	0.0000	2,234.8101	2,234.8101	0.0807	0.0000	2,236.5048

3.5 Building Construction 3 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0169	0.1672	0.2669	3.7000e-004		7.3400e-003	7.3400e-003		6.7500e-003	6.7500e-003	0.0000	32.5328	32.5328	0.0105	0.0000	32.7538
Total	0.0169	0.1672	0.2669	3.7000e-004		7.3400e-003	7.3400e-003		6.7500e-003	6.7500e-003	0.0000	32.5328	32.5328	0.0105	0.0000	32.7538

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	0.0447	0.2880	0.6876	1.7400e-003	0.0499	7.2000e-003	0.0571	0.0143	6.6200e-003	0.0209	0.0000	147.7538	147.7538	9.9000e-004	0.0000	147.7746
Worker	0.1836	0.2617	2.7830	0.0127	1.0292	8.2100e-003	1.0374	0.2733	7.6200e-003	0.2810	0.0000	752.3606	752.3606	0.0310	0.0000	753.0106
Total	0.2283	0.5497	3.4706	0.0144	1.0792	0.0154	1.0946	0.2876	0.0142	0.3018	0.0000	900.1144	900.1144	0.0320	0.0000	900.7852

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	4.5200e-003	0.0196	0.2788	3.7000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	32.5328	32.5328	0.0105	0.0000	32.7538
Total	4.5200e-003	0.0196	0.2788	3.7000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	32.5328	32.5328	0.0105	0.0000	32.7538

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	0.0447	0.2880	0.6876	1.7400e-003	0.0499	7.2000e-003	0.0571	0.0143	6.6200e-003	0.0209	0.0000	147.7538	147.7538	9.9000e-004	0.0000	147.7746
Worker	0.1836	0.2617	2.7830	0.0127	1.0292	8.2100e-003	1.0374	0.2733	7.6200e-003	0.2810	0.0000	752.3606	752.3606	0.0310	0.0000	753.0106
Total	0.2283	0.5497	3.4706	0.0144	1.0792	0.0154	1.0946	0.2876	0.0142	0.3018	0.0000	900.1144	900.1144	0.0320	0.0000	900.7852

3.6 Building Construction 4 - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1041	0.9136	0.9888	2.2400e-003		0.0353	0.0353		0.0327	0.0327	0.0000	194.0260	194.0260	0.0595	0.0000	195.2751
Total	0.1041	0.9136	0.9888	2.2400e-003		0.0353	0.0353		0.0327	0.0327	0.0000	194.0260	194.0260	0.0595	0.0000	195.2751

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	0.0625	0.4037	0.9643	2.4600e-003	0.0707	0.0101	0.0808	0.0202	9.3100e-003	0.0295	0.0000	209.1014	209.1014	1.3900e-003	0.0000	209.1307
Worker	0.2526	0.3607	3.8500	0.0182	1.4759	0.0118	1.4877	0.3920	0.0110	0.4029	0.0000	1,069.5686	1,069.5686	0.0433	0.0000	1,070.4786
Total	0.3152	0.7644	4.8143	0.0206	1.5465	0.0219	1.5685	0.4121	0.0203	0.4324	0.0000	1,278.6701	1,278.6701	0.0447	0.0000	1,279.6094

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	0.0419	0.2110	1.2727	2.2400e-003		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	194.0257	194.0257	0.0595	0.0000	195.2749
Total	0.0419	0.2110	1.2727	2.2400e-003		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	194.0257	194.0257	0.0595	0.0000	195.2749

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	0.0625	0.4037	0.9643	2.4600e-003	0.0707	0.0101	0.0808	0.0202	9.3100e-003	0.0295	0.0000	209.1014	209.1014	1.3900e-003	0.0000	209.1307
Worker	0.2526	0.3607	3.8500	0.0182	1.4759	0.0118	1.4877	0.3920	0.0110	0.4029	0.0000	1,069.5686	1,069.5686	0.0433	0.0000	1,070.4786
Total	0.3152	0.7644	4.8143	0.0206	1.5465	0.0219	1.5685	0.4121	0.0203	0.4324	0.0000	1,278.6701	1,278.6701	0.0447	0.0000	1,279.6094

3.6 Building Construction 4 - 2029

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	0.0740	0.6492	0.7025	1.5900e-003		0.0251	0.0251		0.0233	0.0233	0.0000	137.8606	137.8606	0.0423	0.0000	138.7481
Total	0.0740	0.6492	0.7025	1.5900e-003		0.0251	0.0251		0.0233	0.0233	0.0000	137.8606	137.8606	0.0423	0.0000	138.7481

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	0.0439	0.2854	0.6782	1.7500e-003	0.0502	7.2000e-003	0.0574	0.0143	6.6300e-003	0.0210	0.0000	148.5745	148.5745	9.9000e-004	0.0000	148.5953
Worker	0.1720	0.2461	2.6372	0.0129	1.0486	8.4100e-003	1.0571	0.2785	7.8100e-003	0.2863	0.0000	754.2366	754.2366	0.0301	0.0000	754.8678
Total	0.2159	0.5315	3.3154	0.0147	1.0989	0.0156	1.1145	0.2928	0.0144	0.3073	0.0000	902.8111	902.8111	0.0311	0.0000	903.4631

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	0.0297	0.1499	0.9043	1.5900e-003		4.5900e-003	4.5900e-003		4.5900e-003	4.5900e-003	0.0000	137.8604	137.8604	0.0423	0.0000	138.7480
Total	0.0297	0.1499	0.9043	1.5900e-003		4.5900e-003	4.5900e-003		4.5900e-003	4.5900e-003	0.0000	137.8604	137.8604	0.0423	0.0000	138.7480

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	0.0439	0.2854	0.6782	1.7500e-003	0.0502	7.2000e-003	0.0574	0.0143	6.6300e-003	0.0210	0.0000	148.5745	148.5745	9.9000e-004	0.0000	148.5953
Worker	0.1720	0.2461	2.6372	0.0129	1.0486	8.4100e-003	1.0571	0.2785	7.8100e-003	0.2863	0.0000	754.2366	754.2366	0.0301	0.0000	754.8678
Total	0.2159	0.5315	3.3154	0.0147	1.0989	0.0156	1.1145	0.2928	0.0144	0.3073	0.0000	902.8111	902.8111	0.0311	0.0000	903.4631

3.7 Architectural Coating - 2029

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	3.0492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0167	0.1123	0.1773	2.9000e-004		5.0500e-003	5.0500e-003		5.0500e-003	5.0500e-003	0.0000	25.0219	25.0219	1.3600e-003	0.0000	25.0506
Total	3.0659	0.1123	0.1773	2.9000e-004		5.0500e-003	5.0500e-003		5.0500e-003	5.0500e-003	0.0000	25.0219	25.0219	1.3600e-003	0.0000	25.0506

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	0.0162	0.0232	0.2488	1.2200e-003	0.0989	7.9000e-004	0.0997	0.0263	7.4000e-004	0.0270	0.0000	71.1467	71.1467	2.8400e-003	0.0000	71.2062
Total	0.0162	0.0232	0.2488	1.2200e-003	0.0989	7.9000e-004	0.0997	0.0263	7.4000e-004	0.0270	0.0000	71.1467	71.1467	2.8400e-003	0.0000	71.2062

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	3.0492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0126	0.1796	2.9000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.0219	25.0219	1.3600e-003	0.0000	25.0505
Total	3.0521	0.0126	0.1796	2.9000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.0219	25.0219	1.3600e-003	0.0000	25.0505

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	0.0232	0.2488	1.2200e-003	0.0989	7.9000e-004	0.0997	0.0263	7.4000e-004	0.0270	0.0000	71.1467	71.1467	2.8400e-003	0.0000	71.2062
Total	0.0162	0.0232	0.2488	1.2200e-003	0.0989	7.9000e-004	0.0997	0.0263	7.4000e-004	0.0270	0.0000	71.1467	71.1467	2.8400e-003	0.0000	71.2062

3.7 Architectural Coating - 2030

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	1.2446					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2300e-003	0.0343	0.0719	1.2000e-004		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	10.2130	10.2130	4.1000e-004	0.0000	10.2217
Total	1.2498	0.0343	0.0719	1.2000e-004		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	10.2130	10.2130	4.1000e-004	0.0000	10.2217

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	6.3400e-003	9.1000e-003	0.0982	5.0000e-004	0.0404	3.2000e-004	0.0407	0.0107	3.0000e-004	0.0110	0.0000	28.8500	28.8500	1.1300e-003	0.0000	28.8737
Total	6.3400e-003	9.1000e-003	0.0982	5.0000e-004	0.0404	3.2000e-004	0.0407	0.0107	3.0000e-004	0.0110	0.0000	28.8500	28.8500	1.1300e-003	0.0000	28.8737

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	1.2446					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1900e-003	5.1500e-003	0.0733	1.2000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	10.2130	10.2130	4.1000e-004	0.0000	10.2217
Total	1.2458	5.1500e-003	0.0733	1.2000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	10.2130	10.2130	4.1000e-004	0.0000	10.2217

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	6.3400e-003	9.1000e-003	0.0982	5.0000e-004	0.0404	3.2000e-004	0.0407	0.0107	3.0000e-004	0.0110	0.0000	28.8500	28.8500	1.1300e-003	0.0000	28.8737
Total	6.3400e-003	9.1000e-003	0.0982	5.0000e-004	0.0404	3.2000e-004	0.0407	0.0107	3.0000e-004	0.0110	0.0000	28.8500	28.8500	1.1300e-003	0.0000	28.8737

3.8 Building Construction 5 - 2029

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	0.0415	0.3843	0.3642	7.8000e-004		0.0168	0.0168		0.0157	0.0157	0.0000	68.0461	68.0461	0.0181	0.0000	68.4256
Total	0.0415	0.3843	0.3642	7.8000e-004		0.0168	0.0168		0.0157	0.0157	0.0000	68.0461	68.0461	0.0181	0.0000	68.4256

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	0.0354	0.2303	0.5472	1.4100e-003	0.0405	5.8100e-003	0.0463	0.0116	5.3500e-003	0.0169	0.0000	119.8763	119.8763	8.0000e-004	0.0000	119.8931
Worker	0.0360	0.0515	0.5517	2.7000e-003	0.2194	1.7600e-003	0.2211	0.0583	1.6300e-003	0.0599	0.0000	157.7836	157.7836	6.2900e-003	0.0000	157.9157
Total	0.0714	0.2818	1.0989	4.1100e-003	0.2599	7.5700e-003	0.2675	0.0698	6.9800e-003	0.0768	0.0000	277.6600	277.6600	7.0900e-003	0.0000	277.8088

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	9.1600e-003	0.0397	0.4345	7.8000e-004		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	68.0460	68.0460	0.0181	0.0000	68.4255
Total	9.1600e-003	0.0397	0.4345	7.8000e-004		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	68.0460	68.0460	0.0181	0.0000	68.4255

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	0.0354	0.2303	0.5472	1.4100e-003	0.0405	5.8100e-003	0.0463	0.0116	5.3500e-003	0.0169	0.0000	119.8763	119.8763	8.0000e-004	0.0000	119.8931
Worker	0.0360	0.0515	0.5517	2.7000e-003	0.2194	1.7600e-003	0.2211	0.0583	1.6300e-003	0.0599	0.0000	157.7836	157.7836	6.2900e-003	0.0000	157.9157
Total	0.0714	0.2818	1.0989	4.1100e-003	0.2599	7.5700e-003	0.2675	0.0698	6.9800e-003	0.0768	0.0000	277.6600	277.6600	7.0900e-003	0.0000	277.8088

3.9 Building Construction 6 - 2029

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	0.0155	0.1551	0.1509	3.0000e-004		6.8100e-003	6.8100e-003		6.2700e-003	6.2700e-003	0.0000	26.6655	26.6655	8.6200e-003	0.0000	26.8466
Total	0.0155	0.1551	0.1509	3.0000e-004		6.8100e-003	6.8100e-003		6.2700e-003	6.2700e-003	0.0000	26.6655	26.6655	8.6200e-003	0.0000	26.8466

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	0.0269	0.1744	0.4145	1.0700e-003	0.0307	4.4000e-003	0.0351	8.7600e-003	4.0500e-003	0.0128	0.0000	90.7955	90.7955	6.1000e-004	0.0000	90.8082
Worker	0.0276	0.0395	0.4234	2.0700e-003	0.1684	1.3500e-003	0.1697	0.0447	1.2500e-003	0.0460	0.0000	121.0898	121.0898	4.8300e-003	0.0000	121.1911
Total	0.0545	0.2139	0.8378	3.1400e-003	0.1990	5.7500e-003	0.2048	0.0535	5.3000e-003	0.0588	0.0000	211.8853	211.8853	5.4400e-003	0.0000	211.9994

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	3.7200e-003	0.0161	0.1794	3.0000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	26.6655	26.6655	8.6200e-003	0.0000	26.8466
Total	3.7200e-003	0.0161	0.1794	3.0000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	26.6655	26.6655	8.6200e-003	0.0000	26.8466

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	0.0269	0.1744	0.4145	1.0700e-003	0.0307	4.4000e-003	0.0351	8.7600e-003	4.0500e-003	0.0128	0.0000	90.7955	90.7955	6.1000e-004	0.0000	90.8082
Worker	0.0276	0.0395	0.4234	2.0700e-003	0.1684	1.3500e-003	0.1697	0.0447	1.2500e-003	0.0460	0.0000	121.0898	121.0898	4.8300e-003	0.0000	121.1911
Total	0.0545	0.2139	0.8378	3.1400e-003	0.1990	5.7500e-003	0.2048	0.0535	5.3000e-003	0.0588	0.0000	211.8853	211.8853	5.4400e-003	0.0000	211.9994

3.9 Building Construction 6 - 2030

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	0.0186	0.0858	0.1762	4.5000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	38.7539	38.7539	1.5000e-003	0.0000	38.7854
Total	0.0186	0.0858	0.1762	4.5000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	38.7539	38.7539	1.5000e-003	0.0000	38.7854

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	0.0322	0.2105	0.4989	1.3000e-003	0.0372	5.3400e-003	0.0425	0.0106	4.9200e-003	0.0155	0.0000	110.0548	110.0548	7.4000e-004	0.0000	110.0702
Worker	0.0321	0.0460	0.4962	2.5100e-003	0.2041	1.6400e-003	0.2057	0.0542	1.5200e-003	0.0557	0.0000	145.8178	145.8178	5.7200e-003	0.0000	145.9378
Total	0.0643	0.2565	0.9952	3.8100e-003	0.2413	6.9800e-003	0.2482	0.0648	6.4400e-003	0.0712	0.0000	255.8726	255.8726	6.4600e-003	0.0000	256.0081

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	4.5100e-003	0.0195	0.2174	4.5000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	38.7539	38.7539	1.5000e-003	0.0000	38.7854
Total	4.5100e-003	0.0195	0.2174	4.5000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	38.7539	38.7539	1.5000e-003	0.0000	38.7854

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	0.0322	0.2105	0.4989	1.3000e-003	0.0372	5.3400e-003	0.0425	0.0106	4.9200e-003	0.0155	0.0000	110.0548	110.0548	7.4000e-004	0.0000	110.0702
Worker	0.0321	0.0460	0.4962	2.5100e-003	0.2041	1.6400e-003	0.2057	0.0542	1.5200e-003	0.0557	0.0000	145.8178	145.8178	5.7200e-003	0.0000	145.9378
Total	0.0643	0.2565	0.9952	3.8100e-003	0.2413	6.9800e-003	0.2482	0.0648	6.4400e-003	0.0712	0.0000	255.8726	255.8726	6.4600e-003	0.0000	256.0081

3.10 Paving - 2030

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	0.0621	0.3693	0.6922	1.1500e-003		0.0140	0.0140		0.0140	0.0140	0.0000	98.1693	98.1693	4.9900e-003	0.0000	98.2742
Paving	6.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0688	0.3693	0.6922	1.1500e-003		0.0140	0.0140		0.0140	0.0140	0.0000	98.1693	98.1693	4.9900e-003	0.0000	98.2742

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	1.7900e-003	2.5700e-003	0.0277	1.4000e-004	0.0114	9.0000e-005	0.0115	3.0300e-003	8.0000e-005	3.1200e-003	0.0000	8.1533	8.1533	3.2000e-004	0.0000	8.1600
Total	1.7900e-003	2.5700e-003	0.0277	1.4000e-004	0.0114	9.0000e-005	0.0115	3.0300e-003	8.0000e-005	3.1200e-003	0.0000	8.1533	8.1533	3.2000e-004	0.0000	8.1600

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	0.0136	0.0633	0.7037	1.1500e-003		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	98.1692	98.1692	4.9900e-003	0.0000	98.2740
Paving	6.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0203	0.0633	0.7037	1.1500e-003		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	98.1692	98.1692	4.9900e-003	0.0000	98.2740

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	1.7900e-003	2.5700e-003	0.0277	1.4000e-004	0.0114	9.0000e-005	0.0115	3.0300e-003	8.0000e-005	3.1200e-003	0.0000	8.1533	8.1533	3.2000e-004	0.0000	8.1600
Total	1.7900e-003	2.5700e-003	0.0277	1.4000e-004	0.0114	9.0000e-005	0.0115	3.0300e-003	8.0000e-005	3.1200e-003	0.0000	8.1533	8.1533	3.2000e-004	0.0000	8.1600

Appendix D. 1

Construction Emissions – CalEEMod Output (Annual)

Phase 6 Construction Emissions

Harbor UCLA Master Plan- Phase 6 South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	250.00	1000sqft	5.74	250,000.00	0
Medical Office Building	97.00	1000sqft	2.23	97,000.00	0
Other Asphalt Surfaces	75.00	1000sqft	1.72	75,000.00	0
Other Asphalt Surfaces	13.50	1000sqft	0.31	13,500.00	0
Unenclosed Parking with Elevator	1,000.00	Space	9.00	400,000.00	0
City Park	22.00	Acre	22.00	958,320.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2014
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	93.00
tblConstructionPhase	NumDays	740.00	374.00
tblConstructionPhase	NumDays	50.00	85.00
tblConstructionPhase	NumDays	75.00	675.00
tblConstructionPhase	NumDays	55.00	93.00
tblConstructionPhase	PhaseEndDate	9/16/2024	5/8/2024
tblConstructionPhase	PhaseEndDate	3/23/2026	5/8/2024
tblConstructionPhase	PhaseEndDate	9/16/2024	5/8/2024
tblConstructionPhase	PhaseStartDate	5/9/2024	1/1/2024
tblConstructionPhase	PhaseStartDate	10/16/2024	12/2/2022
tblConstructionPhase	PhaseStartDate	5/9/2024	1/1/2024
tblGrading	MaterialExported	0.00	31,953.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblTripsAndVMT	HaulingTripNumber	1,453.00	10,229.00
tblTripsAndVMT	HaulingTripNumber	3,159.00	5,325.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	28.00	466.00
tblTripsAndVMT	WorkerTripNumber	15.00	72.00

tblTripsAndVMT	WorkerTripNumber	652.00	2,688.00
tblTripsAndVMT	WorkerTripNumber	13.00	540.00
tblTripsAndVMT	WorkerTripNumber	130.00	52.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1200	1.0605	1.3747	3.5200e-003	0.2203	0.0408	0.2611	0.0510	0.0380	0.0890	0.0000	280.7287	280.7287	0.0281	0.0000	281.3196
2022	0.4815	3.6104	5.5953	0.0145	0.9359	0.1533	1.0891	0.2093	0.1427	0.3520	0.0000	1,101.5502	1,101.5502	0.1299	0.0000	1,104.2772
2023	1.4228	5.8352	19.6206	0.0624	4.3639	0.2217	4.5856	1.1346	0.2068	1.3414	0.0000	4,213.9575	4,213.9575	0.2796	0.0000	4,219.8286
2024	3.0220	3.3157	9.3980	0.0294	2.0477	0.1370	2.1846	0.5168	0.1275	0.6442	0.0000	1,997.7336	1,997.7336	0.1687	0.0000	2,001.2757
Total	5.0462	13.8218	35.9886	0.1098	7.5678	0.5527	8.1205	1.9118	0.5149	2.4267	0.0000	7,593.9700	7,593.9700	0.6063	0.0000	7,606.7011

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	0.0742	0.5362	1.3223	3.5200e-003	0.1831	0.0154	0.1985	0.0454	0.0147	0.0601	0.0000	280.7286	280.7286	0.0281	0.0000	281.3195
2022	0.2712	1.3449	5.7359	0.0145	0.7680	0.0371	0.8051	0.1887	0.0354	0.2240	0.0000	1,101.5497	1,101.5497	0.1299	0.0000	1,104.2767
2023	1.1630	3.0875	20.0061	0.0624	4.2548	0.0821	4.3368	1.1229	0.0771	1.1999	0.0000	4,213.9569	4,213.9569	0.2796	0.0000	4,219.8280
2024	2.8329	1.3574	9.6924	0.0294	1.9385	0.0374	1.9759	0.5050	0.0353	0.5402	0.0000	1,997.7331	1,997.7331	0.1687	0.0000	2,001.2752
Total	4.3414	6.3260	36.7566	0.1098	7.1444	0.1720	7.3164	1.8619	0.1624	2.0243	0.0000	7,593.9683	7,593.9683	0.6063	0.0000	7,606.6994

	ROG	NOx	CO	SO2	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	13.97	54.23	-2.13	0.00	5.59	68.88	9.90	2.61	68.46	16.58	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	11/17/2021	3/15/2022	5	85	
2	Grading	Grading	3/16/2022	10/15/2024	5	675	
3	Building Construction	Building Construction	12/2/2022	5/8/2024	5	374	
4	Paving	Paving	1/1/2024	5/8/2024	5	93	
5	Architectural Coating	Architectural Coating	1/1/2024	5/8/2024	5	93	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 337.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 231,998; Non-Residential Outdoor: 169,333 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40

Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Scrapers	0	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	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	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	11	466.00	4.00	10,229.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	72.00	2.00	5,325.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	2,688.00	260.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	540.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	52.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0610	0.0000	0.0610	9.2400e-003	0.0000	9.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0684	0.6675	0.6649	1.0200e-003		0.0324	0.0324		0.0303	0.0303	0.0000	88.9620	88.9620	0.0241	0.0000	89.4674
Total	0.0684	0.6675	0.6649	1.0200e-003	0.0610	0.0324	0.0934	9.2400e-003	0.0303	0.0395	0.0000	88.9620	88.9620	0.0241	0.0000	89.4674

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	0.0310	0.3601	0.3949	1.4500e-003	0.0745	7.6500e-003	0.0822	0.0193	7.0400e-003	0.0263	0.0000	124.0862	124.0862	9.7000e-004	0.0000	124.1066
Vendor	4.3000e-004	3.4200e-003	6.3800e-003	1.0000e-005	4.1000e-004	6.0000e-005	4.7000e-004	1.2000e-004	6.0000e-005	1.7000e-004	0.0000	1.2064	1.2064	1.0000e-005	0.0000	1.2066
Worker	0.0202	0.0295	0.3085	1.0300e-003	0.0844	6.6000e-004	0.0850	0.0224	6.1000e-004	0.0230	0.0000	66.4741	66.4741	3.0900e-003	0.0000	66.5391
Total	0.0516	0.3930	0.7098	2.4900e-003	0.1593	8.3700e-003	0.1677	0.0418	7.7100e-003	0.0495	0.0000	191.7667	191.7667	4.0700e-003	0.0000	191.8522

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					0.0238	0.0000	0.0238	3.6000e-003	0.0000	3.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1432	0.6125	1.0200e-003		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003	0.0000	88.9619	88.9619	0.0241	0.0000	89.4673
Total	0.0226	0.1432	0.6125	1.0200e-003	0.0238	7.0400e-003	0.0308	3.6000e-003	7.0400e-003	0.0106	0.0000	88.9619	88.9619	0.0241	0.0000	89.4673

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	0.0310	0.3601	0.3949	1.4500e-003	0.0745	7.6500e-003	0.0822	0.0193	7.0400e-003	0.0263	0.0000	124.0862	124.0862	9.7000e-004	0.0000	124.1066
Vendor	4.3000e-004	3.4200e-003	6.3800e-003	1.0000e-005	4.1000e-004	6.0000e-005	4.7000e-004	1.2000e-004	6.0000e-005	1.7000e-004	0.0000	1.2064	1.2064	1.0000e-005	0.0000	1.2066
Worker	0.0202	0.0295	0.3085	1.0300e-003	0.0844	6.6000e-004	0.0850	0.0224	6.1000e-004	0.0230	0.0000	66.4741	66.4741	3.0900e-003	0.0000	66.5391
Total	0.0516	0.3930	0.7098	2.4900e-003	0.1593	8.3700e-003	0.1677	0.0418	7.7100e-003	0.0495	0.0000	191.7667	191.7667	4.0700e-003	0.0000	191.8522

3.2 Demolition - 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					0.0962	0.0000	0.0962	0.0146	0.0000	0.0146	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0995	0.9453	1.0288	1.6000e-003		0.0449	0.0449		0.0419	0.0419	0.0000	140.2314	140.2314	0.0378	0.0000	141.0259
Total	0.0995	0.9453	1.0288	1.6000e-003	0.0962	0.0449	0.1410	0.0146	0.0419	0.0565	0.0000	140.2314	140.2314	0.0378	0.0000	141.0259

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	0.0488	0.5181	0.6166	2.2900e-003	0.0794	0.0120	0.0913	0.0210	0.0110	0.0320	0.0000	195.3684	195.3684	1.5700e-003	0.0000	195.4013
Vendor	6.7000e-004	4.8900e-003	9.8000e-003	2.0000e-005	6.4000e-004	1.0000e-004	7.4000e-004	1.8000e-004	9.0000e-005	2.7000e-004	0.0000	1.8993	1.8993	1.0000e-005	0.0000	1.8996
Worker	0.0301	0.0436	0.4572	1.6300e-003	0.1329	1.0400e-003	0.1340	0.0353	9.6000e-004	0.0363	0.0000	103.0073	103.0073	4.6700e-003	0.0000	103.1053
Total	0.0796	0.5665	1.0835	3.9400e-003	0.2129	0.0131	0.2260	0.0565	0.0120	0.0686	0.0000	300.2750	300.2750	6.2500e-003	0.0000	300.4061

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					0.0375	0.0000	0.0375	5.6800e-003	0.0000	5.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0342	0.2134	0.9647	1.6000e-003		9.8900e-003	9.8900e-003		9.8900e-003	9.8900e-003	0.0000	140.2312	140.2312	0.0378	0.0000	141.0258
Total	0.0342	0.2134	0.9647	1.6000e-003	0.0375	9.8900e-003	0.0474	5.6800e-003	9.8900e-003	0.0156	0.0000	140.2312	140.2312	0.0378	0.0000	141.0258

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	0.0488	0.5181	0.6166	2.2900e-003	0.0794	0.0120	0.0913	0.0210	0.0110	0.0320	0.0000	195.3684	195.3684	1.5700e-003	0.0000	195.4013
Vendor	6.7000e-004	4.8900e-003	9.8000e-003	2.0000e-005	6.4000e-004	1.0000e-004	7.4000e-004	1.8000e-004	9.0000e-005	2.7000e-004	0.0000	1.8993	1.8993	1.0000e-005	0.0000	1.8996
Worker	0.0301	0.0436	0.4572	1.6300e-003	0.1329	1.0400e-003	0.1340	0.0353	9.6000e-004	0.0363	0.0000	103.0073	103.0073	4.6700e-003	0.0000	103.1053
Total	0.0796	0.5665	1.0835	3.9400e-003	0.2129	0.0131	0.2260	0.0565	0.0120	0.0686	0.0000	300.2750	300.2750	6.2500e-003	0.0000	300.4061

3.3 Grading - 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					0.1790	0.0000	0.1790	0.0193	0.0000	0.0193	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1671	1.5663	1.5629	2.6700e-003		0.0798	0.0798		0.0743	0.0743	0.0000	233.4956	233.4956	0.0664	0.0000	234.8894
Total	0.1671	1.5663	1.5629	2.6700e-003	0.1790	0.0798	0.2588	0.0193	0.0743	0.0936	0.0000	233.4956	233.4956	0.0664	0.0000	234.8894

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	0.0128	0.1359	0.1617	6.0000e-004	0.0379	3.1300e-003	0.0410	9.7100e-003	2.8800e-003	0.0126	0.0000	51.2290	51.2290	4.1000e-004	0.0000	51.2376
Vendor	1.3400e-003	9.7700e-003	0.0196	4.0000e-005	1.2800e-003	1.9000e-004	1.4700e-003	3.7000e-004	1.8000e-004	5.4000e-004	0.0000	3.7986	3.7986	3.0000e-005	0.0000	3.7992
Worker	0.0186	0.0269	0.2825	1.0100e-003	0.0822	6.4000e-004	0.0828	0.0218	5.9000e-004	0.0224	0.0000	63.6611	63.6611	2.8800e-003	0.0000	63.7217
Total	0.0328	0.1725	0.4638	1.6500e-003	0.1213	3.9600e-003	0.1253	0.0319	3.6500e-003	0.0355	0.0000	118.6887	118.6887	3.3200e-003	0.0000	118.7585

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					0.0698	0.0000	0.0698	7.5400e-003	0.0000	7.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.1374	1.7581	2.6700e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003	0.0000	233.4953	233.4953	0.0664	0.0000	234.8891
Total	0.0317	0.1374	1.7581	2.6700e-003	0.0698	4.2300e-003	0.0740	7.5400e-003	4.2300e-003	0.0118	0.0000	233.4953	233.4953	0.0664	0.0000	234.8891

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	0.0128	0.1359	0.1617	6.0000e-004	0.0379	3.1300e-003	0.0410	9.7100e-003	2.8800e-003	0.0126	0.0000	51.2290	51.2290	4.1000e-004	0.0000	51.2376
Vendor	1.3400e-003	9.7700e-003	0.0196	4.0000e-005	1.2800e-003	1.9000e-004	1.4700e-003	3.7000e-004	1.8000e-004	5.4000e-004	0.0000	3.7986	3.7986	3.0000e-005	0.0000	3.7992
Worker	0.0186	0.0269	0.2825	1.0100e-003	0.0822	6.4000e-004	0.0828	0.0218	5.9000e-004	0.0224	0.0000	63.6611	63.6611	2.8800e-003	0.0000	63.7217
Total	0.0328	0.1725	0.4638	1.6500e-003	0.1213	3.9600e-003	0.1253	0.0319	3.6500e-003	0.0355	0.0000	118.6887	118.6887	3.3200e-003	0.0000	118.7585

3.3 Grading - 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					
Fugitive Dust					0.1790	0.0000	0.1790	0.0193	0.0000	0.0193	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1905	1.7434	1.9409	3.3300e-003		0.0851	0.0851		0.0793	0.0793	0.0000	291.9616	291.9616	0.0828	0.0000	293.6996
Total	0.1905	1.7434	1.9409	3.3300e-003	0.1790	0.0851	0.2641	0.0193	0.0793	0.0986	0.0000	291.9616	291.9616	0.0828	0.0000	293.6996

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	0.0142	0.1213	0.1916	7.5000e-004	0.0388	3.8900e-003	0.0427	0.0100	3.5800e-003	0.0136	0.0000	63.5858	63.5858	4.4000e-004	0.0000	63.5951
Vendor	1.5500e-003	9.7100e-003	0.0236	6.0000e-005	1.6000e-003	2.4000e-004	1.8400e-003	4.6000e-004	2.2000e-004	6.8000e-004	0.0000	4.7254	4.7254	3.0000e-005	0.0000	4.7260
Worker	0.0220	0.0317	0.3327	1.2600e-003	0.1027	8.0000e-004	0.1035	0.0273	7.4000e-004	0.0280	0.0000	78.3502	78.3502	3.4600e-003	0.0000	78.4230
Total	0.0378	0.1626	0.5478	2.0700e-003	0.1431	4.9300e-003	0.1480	0.0378	4.5400e-003	0.0423	0.0000	146.6614	146.6614	3.9300e-003	0.0000	146.7441

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					0.0698	0.0000	0.0698	7.5400e-003	0.0000	7.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.1717	2.1976	3.3300e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	291.9612	291.9612	0.0828	0.0000	293.6992
Total	0.0396	0.1717	2.1976	3.3300e-003	0.0698	5.2800e-003	0.0751	7.5400e-003	5.2800e-003	0.0128	0.0000	291.9612	291.9612	0.0828	0.0000	293.6992

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	0.0142	0.1213	0.1916	7.5000e-004	0.0388	3.8900e-003	0.0427	0.0100	3.5800e-003	0.0136	0.0000	63.5858	63.5858	4.4000e-004	0.0000	63.5951
Vendor	1.5500e-003	9.7100e-003	0.0236	6.0000e-005	1.6000e-003	2.4000e-004	1.8400e-003	4.6000e-004	2.2000e-004	6.8000e-004	0.0000	4.7254	4.7254	3.0000e-005	0.0000	4.7260
Worker	0.0220	0.0317	0.3327	1.2600e-003	0.1027	8.0000e-004	0.1035	0.0273	7.4000e-004	0.0280	0.0000	78.3502	78.3502	3.4600e-003	0.0000	78.4230
Total	0.0378	0.1626	0.5478	2.0700e-003	0.1431	4.9300e-003	0.1480	0.0378	4.5400e-003	0.0423	0.0000	146.6614	146.6614	3.9300e-003	0.0000	146.7441

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1790	0.0000	0.1790	0.0193	0.0000	0.0193	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1428	1.2711	1.5427	2.6600e-003		0.0600	0.0600		0.0558	0.0558	0.0000	232.4996	232.4996	0.0658	0.0000	233.8810
Total	0.1428	1.2711	1.5427	2.6600e-003	0.1790	0.0600	0.2389	0.0193	0.0558	0.0752	0.0000	232.4996	232.4996	0.0658	0.0000	233.8810

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	0.0113	0.0966	0.1512	6.0000e-004	0.0379	3.1000e-003	0.0410	9.7100e-003	2.8500e-003	0.0126	0.0000	50.7549	50.7549	3.6000e-004	0.0000	50.7625
Vendor	1.2200e-003	7.6900e-003	0.0184	4.0000e-005	1.2700e-003	1.9000e-004	1.4600e-003	3.6000e-004	1.8000e-004	5.4000e-004	0.0000	3.7723	3.7723	3.0000e-005	0.0000	3.7728
Worker	0.0167	0.0239	0.2518	1.0100e-003	0.0818	6.4000e-004	0.0824	0.0217	6.0000e-004	0.0223	0.0000	61.8328	61.8328	2.6800e-003	0.0000	61.8892
Total	0.0292	0.1281	0.4214	1.6500e-003	0.1209	3.9300e-003	0.1249	0.0318	3.6300e-003	0.0354	0.0000	116.3601	116.3601	3.0700e-003	0.0000	116.4245

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					0.0698	0.0000	0.0698	7.5400e-003	0.0000	7.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.1367	1.7496	2.6600e-003		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	232.4993	232.4993	0.0658	0.0000	233.8808
Total	0.0316	0.1367	1.7496	2.6600e-003	0.0698	4.2100e-003	0.0740	7.5400e-003	4.2100e-003	0.0118	0.0000	232.4993	232.4993	0.0658	0.0000	233.8808

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	0.0113	0.0966	0.1512	6.0000e-004	0.0379	3.1000e-003	0.0410	9.7100e-003	2.8500e-003	0.0126	0.0000	50.7549	50.7549	3.6000e-004	0.0000	50.7625
Vendor	1.2200e-003	7.6900e-003	0.0184	4.0000e-005	1.2700e-003	1.9000e-004	1.4600e-003	3.6000e-004	1.8000e-004	5.4000e-004	0.0000	3.7723	3.7723	3.0000e-005	0.0000	3.7728
Worker	0.0167	0.0239	0.2518	1.0100e-003	0.0818	6.4000e-004	0.0824	0.0217	6.0000e-004	0.0223	0.0000	61.8328	61.8328	2.6800e-003	0.0000	61.8892
Total	0.0292	0.1281	0.4214	1.6500e-003	0.1209	3.9300e-003	0.1249	0.0318	3.6300e-003	0.0354	0.0000	116.3601	116.3601	3.0700e-003	0.0000	116.4245

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0149	0.1300	0.1340	2.2000e-004		6.5900e-003	6.5900e-003		6.2100e-003	6.2100e-003	0.0000	19.0501	19.0501	4.8400e-003	0.0000	19.1516
Total	0.0149	0.1300	0.1340	2.2000e-004		6.5900e-003	6.5900e-003		6.2100e-003	6.2100e-003	0.0000	19.0501	19.0501	4.8400e-003	0.0000	19.1516

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	0.0176	0.1283	0.2573	5.9000e-004	0.0168	2.5400e-003	0.0194	4.8000e-003	2.3400e-003	7.1400e-003	0.0000	49.8560	49.8560	3.7000e-004	0.0000	49.8639
Worker	0.0701	0.1015	1.0649	3.8000e-003	0.3097	2.4100e-003	0.3121	0.0822	2.2400e-003	0.0845	0.0000	239.9535	239.9535	0.0109	0.0000	240.1818
Total	0.0877	0.2298	1.3222	4.3900e-003	0.3265	4.9500e-003	0.3314	0.0870	4.5800e-003	0.0916	0.0000	289.8095	289.8095	0.0112	0.0000	290.0457

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	5.2000e-003	0.0253	0.1436	2.2000e-004		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	19.0501	19.0501	4.8400e-003	0.0000	19.1516
Total	5.2000e-003	0.0253	0.1436	2.2000e-004		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	19.0501	19.0501	4.8400e-003	0.0000	19.1516

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	0.0176	0.1283	0.2573	5.9000e-004	0.0168	2.5400e-003	0.0194	4.8000e-003	2.3400e-003	7.1400e-003	0.0000	49.8560	49.8560	3.7000e-004	0.0000	49.8639
Worker	0.0701	0.1015	1.0649	3.8000e-003	0.3097	2.4100e-003	0.3121	0.0822	2.2400e-003	0.0845	0.0000	239.9535	239.9535	0.0109	0.0000	240.1818
Total	0.0877	0.2298	1.3222	4.3900e-003	0.3265	4.9500e-003	0.3314	0.0870	4.5800e-003	0.0916	0.0000	289.8095	289.8095	0.0112	0.0000	290.0457

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1704	1.4840	1.6465	2.7500e-003		0.0708	0.0708		0.0667	0.0667	0.0000	235.9617	235.9617	0.0594	0.0000	237.2092
Total	0.1704	1.4840	1.6465	2.7500e-003		0.0708	0.0708		0.0667	0.0667	0.0000	235.9617	235.9617	0.0594	0.0000	237.2092

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	0.2017	1.2627	3.0645	7.2400e-003	0.2081	0.0311	0.2391	0.0594	0.0286	0.0880	0.0000	614.2975	614.2975	4.1700e-003	0.0000	614.3851
Worker	0.8224	1.1825	12.4209	0.0470	3.8338	0.0299	3.8637	1.0182	0.0277	1.0459	0.0000	2,925.0753	2,925.0753	0.1293	0.0000	2,927.7907
Total	1.0241	2.4452	15.4854	0.0543	4.0419	0.0609	4.1028	1.0776	0.0563	1.1338	0.0000	3,539.3728	3,539.3728	0.1335	0.0000	3,542.1757

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	0.0615	0.3080	1.7753	2.7500e-003		0.0110	0.0110		0.0110	0.0110	0.0000	235.9614	235.9614	0.0594	0.0000	237.2089
Total	0.0615	0.3080	1.7753	2.7500e-003		0.0110	0.0110		0.0110	0.0110	0.0000	235.9614	235.9614	0.0594	0.0000	237.2089

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	0.2017	1.2627	3.0645	7.2400e-003	0.2081	0.0311	0.2391	0.0594	0.0286	0.0880	0.0000	614.2975	614.2975	4.1700e-003	0.0000	614.3851
Worker	0.8224	1.1825	12.4209	0.0470	3.8338	0.0299	3.8637	1.0182	0.0277	1.0459	0.0000	2,925.0753	2,925.0753	0.1293	0.0000	2,927.7907
Total	1.0241	2.4452	15.4854	0.0543	4.0419	0.0609	4.1028	1.0776	0.0563	1.1338	0.0000	3,539.3728	3,539.3728	0.1335	0.0000	3,542.1757

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0573	0.4971	0.5861	9.8000e-004		0.0223	0.0223		0.0210	0.0210	0.0000	84.4223	84.4223	0.0211	0.0000	84.8662
Total	0.0573	0.4971	0.5861	9.8000e-004		0.0223	0.0223		0.0210	0.0210	0.0000	84.4223	84.4223	0.0211	0.0000	84.8662

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	0.0710	0.4493	1.0741	2.5900e-003	0.0744	0.0111	0.0855	0.0213	0.0102	0.0315	0.0000	220.3241	220.3241	1.5100e-003	0.0000	220.3559
Worker	0.2799	0.4005	4.2239	0.0169	1.3713	0.0108	1.3821	0.3642	0.0100	0.3742	0.0000	1,037.1186	1,037.1186	0.0450	0.0000	1,038.0637
Total	0.3508	0.8498	5.2981	0.0195	1.4458	0.0219	1.4677	0.3854	0.0202	0.4057	0.0000	1,257.4427	1,257.4427	0.0465	0.0000	1,258.4197

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	0.0211	0.1083	0.6343	9.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	84.4222	84.4222	0.0211	0.0000	84.8661
Total	0.0211	0.1083	0.6343	9.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	84.4222	84.4222	0.0211	0.0000	84.8661

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	0.0710	0.4493	1.0741	2.5900e-003	0.0744	0.0111	0.0855	0.0213	0.0102	0.0315	0.0000	220.3241	220.3241	1.5100e-003	0.0000	220.3559
Worker	0.2799	0.4005	4.2239	0.0169	1.3713	0.0108	1.3821	0.3642	0.0100	0.3742	0.0000	1,037.1186	1,037.1186	0.0450	0.0000	1,038.0637
Total	0.3508	0.8498	5.2981	0.0195	1.4458	0.0219	1.4677	0.3854	0.0202	0.4057	0.0000	1,257.4427	1,257.4427	0.0465	0.0000	1,258.4197

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0439	0.4248	0.5353	7.6000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	66.7233	66.7233	0.0216	0.0000	67.1765
Paving	2.6600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0466	0.4248	0.5353	7.6000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	66.7233	66.7233	0.0216	0.0000	67.1765

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	0.0562	0.0805	0.8486	3.4000e-003	0.2755	2.1700e-003	0.2777	0.0732	2.0100e-003	0.0752	0.0000	208.3497	208.3497	9.0400e-003	0.0000	208.5396
Total	0.0562	0.0805	0.8486	3.4000e-003	0.2755	2.1700e-003	0.2777	0.0732	2.0100e-003	0.0752	0.0000	208.3497	208.3497	9.0400e-003	0.0000	208.5396

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	9.3000e-003	0.0403	0.5735	7.6000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	66.7232	66.7232	0.0216	0.0000	67.1764
Paving	2.6600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0120	0.0403	0.5735	7.6000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	66.7232	66.7232	0.0216	0.0000	67.1764

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0805	0.8486	3.4000e-003	0.2755	2.1700e-003	0.2777	0.0732	2.0100e-003	0.0752	0.0000	208.3497	208.3497	9.0400e-003	0.0000	208.5396
Total	0.0562	0.0805	0.8486	3.4000e-003	0.2755	2.1700e-003	0.2777	0.0732	2.0100e-003	0.0752	0.0000	208.3497	208.3497	9.0400e-003	0.0000	208.5396

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3252					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4100e-003	0.0567	0.0842	1.4000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	11.8726	11.8726	6.7000e-004	0.0000	11.8867
Total	2.3336	0.0567	0.0842	1.4000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	11.8726	11.8726	6.7000e-004	0.0000	11.8867

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	5.4100e-003	7.7500e-003	0.0817	3.3000e-004	0.0265	2.1000e-004	0.0267	7.0500e-003	1.9000e-004	7.2400e-003	0.0000	20.0633	20.0633	8.7000e-004	0.0000	20.0816
Total	5.4100e-003	7.7500e-003	0.0817	3.3000e-004	0.0265	2.1000e-004	0.0267	7.0500e-003	1.9000e-004	7.2400e-003	0.0000	20.0633	20.0633	8.7000e-004	0.0000	20.0816

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3252					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3800e-003	5.9900e-003	0.0852	1.4000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	11.8726	11.8726	6.7000e-004	0.0000	11.8867
Total	2.3266	5.9900e-003	0.0852	1.4000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	11.8726	11.8726	6.7000e-004	0.0000	11.8867

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	5.4100e-003	7.7500e-003	0.0817	3.3000e-004	0.0265	2.1000e-004	0.0267	7.0500e-003	1.9000e-004	7.2400e-003	0.0000	20.0633	20.0633	8.7000e-004	0.0000	20.0816
Total	5.4100e-003	7.7500e-003	0.0817	3.3000e-004	0.0265	2.1000e-004	0.0267	7.0500e-003	1.9000e-004	7.2400e-003	0.0000	20.0633	20.0633	8.7000e-004	0.0000	20.0816

Appendix D. 1

Construction Emissions – CalEEMod Output (Annual)

LA Biomed Construction Emissions

Harbor UCLA Master Plan- LA BIOMED South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	225.00	1000sqft	5.17	225,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2030
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

See AQ Construction Model Inputs

Construction Off-road Equipment Mitigation - Tier 4 Equipment

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	130.00
tblConstructionPhase	NumDays	230.00	183.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	PhaseEndDate	6/30/2023	12/30/2029
tblConstructionPhase	PhaseEndDate	5/29/2030	12/30/2029
tblConstructionPhase	PhaseStartDate	12/31/2022	7/1/2029

tblConstructionPhase	PhaseStartDate	12/31/2029	8/1/2029
tblGrading	AcresOfGrading	38.50	10.00
tblProjectCharacteristics	OperationalYear	2014	2030

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2763	2.4029	2.9094	5.2900e-003	0.3366	0.1176	0.4542	0.1548	0.1098	0.2646	0.0000	434.5129	434.5129	0.0863	0.0000	436.3247
2029	2.6707	0.5406	0.9466	1.6500e-003	0.0194	0.0260	0.0454	5.1500e-003	0.0242	0.0293	0.0000	137.7490	137.7490	0.0360	0.0000	138.5039
2030	0.1861	1.0747	2.4169	5.5500e-003	0.1165	0.0214	0.1379	0.0315	0.0210	0.0525	0.0000	441.4784	441.4784	0.0151	0.0000	441.7950
Total	3.1331	4.0182	6.2729	0.0125	0.4725	0.1650	0.6375	0.1915	0.1550	0.3464	0.0000	1,013.7403	1,013.7403	0.1373	0.0000	1,016.6237

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0941	0.4703	2.9484	5.2900e-003	0.1920	0.0121	0.2041	0.0768	0.0118	0.0886	0.0000	434.5125	434.5125	0.0863	0.0000	436.3243
2029	2.6274	0.0790	1.0919	1.6500e-003	0.0194	2.4300e-003	0.0218	5.1500e-003	2.4200e-003	7.5700e-003	0.0000	137.7488	137.7488	0.0360	0.0000	138.5038
2030	0.0811	0.4342	2.5695	5.5500e-003	0.1165	9.9000e-003	0.1264	0.0315	9.5400e-003	0.0410	0.0000	441.4780	441.4780	0.0151	0.0000	441.7947
Total	2.8026	0.9834	6.6098	0.0125	0.3279	0.0245	0.3523	0.1134	0.0238	0.1372	0.0000	1,013.7394	1,013.7394	0.1373	0.0000	1,016.6228

	ROG	NOx	CO	SO2	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	10.55	75.53	-5.37	0.00	30.61	85.17	44.73	40.79	84.65	60.40	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	Grading	Grading	1/2/2022	4/19/2022	5	77	
2	Building Construction	Building Construction	4/20/2022	12/30/2022	5	183	
3	Architectural Coating	Architectural Coating	7/1/2029	12/30/2029	5	130	
4	Paving	Paving	8/1/2029	12/30/2029	5	108	
5	Building Construction 2	Building Construction	12/31/2029	11/15/2030	5	230	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 337,500; Non-Residential Outdoor: 112,500 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction 2	Cranes	1	7.00	226	0.29
Building Construction 2	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38

Building Construction 2	Generator Sets	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	1	8.00	46	0.45
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction 2	9	72.00	37.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	72.00	37.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 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					0.2372	0.0000	0.2372	0.1280	0.0000	0.1280	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0812	0.7965	0.8259	1.1400e-003		0.0401	0.0401		0.0369	0.0369	0.0000	100.6166	100.6166	0.0325	0.0000	101.3000
Total	0.0812	0.7965	0.8259	1.1400e-003	0.2372	0.0401	0.2773	0.1280	0.0369	0.1650	0.0000	100.6166	100.6166	0.0325	0.0000	101.3000

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	1.4400e-003	2.0800e-003	0.0218	8.0000e-005	6.3400e-003	5.0000e-005	6.3900e-003	1.6800e-003	5.0000e-005	1.7300e-003	0.0000	4.9098	4.9098	2.2000e-004	0.0000	4.9144
Total	1.4400e-003	2.0800e-003	0.0218	8.0000e-005	6.3400e-003	5.0000e-005	6.3900e-003	1.6800e-003	5.0000e-005	1.7300e-003	0.0000	4.9098	4.9098	2.2000e-004	0.0000	4.9144

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					0.0925	0.0000	0.0925	0.0499	0.0000	0.0499	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.0605	0.7568	1.1400e-003		1.8600e-003	1.8600e-003		1.8600e-003	1.8600e-003	0.0000	100.6165	100.6165	0.0325	0.0000	101.2998
Total	0.0140	0.0605	0.7568	1.1400e-003	0.0925	1.8600e-003	0.0944	0.0499	1.8600e-003	0.0518	0.0000	100.6165	100.6165	0.0325	0.0000	101.2998

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	1.4400e-003	2.0800e-003	0.0218	8.0000e-005	6.3400e-003	5.0000e-005	6.3900e-003	1.6800e-003	5.0000e-005	1.7300e-003	0.0000	4.9098	4.9098	2.2000e-004	0.0000	4.9144
Total	1.4400e-003	2.0800e-003	0.0218	8.0000e-005	6.3400e-003	5.0000e-005	6.3900e-003	1.6800e-003	5.0000e-005	1.7300e-003	0.0000	4.9098	4.9098	2.2000e-004	0.0000	4.9144

3.3 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	0.1555	1.4216	1.4940	2.4500e-003		0.0737	0.0737		0.0694	0.0694	0.0000	211.1501	211.1501	0.0505	0.0000	212.2108
Total	0.1555	1.4216	1.4940	2.4500e-003		0.0737	0.0737		0.0694	0.0694	0.0000	211.1501	211.1501	0.0505	0.0000	212.2108

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	0.0218	0.1591	0.3191	7.3000e-004	0.0208	3.1500e-003	0.0240	5.9500e-003	2.9000e-003	8.8500e-003	0.0000	61.8269	61.8269	4.6000e-004	0.0000	61.8367
Worker	0.0164	0.0237	0.2486	8.9000e-004	0.0723	5.6000e-004	0.0728	0.0192	5.2000e-004	0.0197	0.0000	56.0096	56.0096	2.5400e-003	0.0000	56.0628
Total	0.0382	0.1828	0.5677	1.6200e-003	0.0931	3.7100e-003	0.0968	0.0252	3.4200e-003	0.0286	0.0000	117.8365	117.8365	3.0000e-003	0.0000	117.8995

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	0.0405	0.2249	1.6022	2.4500e-003		6.5100e-003	6.5100e-003		6.5100e-003	6.5100e-003	0.0000	211.1498	211.1498	0.0505	0.0000	212.2106
Total	0.0405	0.2249	1.6022	2.4500e-003		6.5100e-003	6.5100e-003		6.5100e-003	6.5100e-003	0.0000	211.1498	211.1498	0.0505	0.0000	212.2106

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	0.0218	0.1591	0.3191	7.3000e-004	0.0208	3.1500e-003	0.0240	5.9500e-003	2.9000e-003	8.8500e-003	0.0000	61.8269	61.8269	4.6000e-004	0.0000	61.8367
Worker	0.0164	0.0237	0.2486	8.9000e-004	0.0723	5.6000e-004	0.0728	0.0192	5.2000e-004	0.0197	0.0000	56.0096	56.0096	2.5400e-003	0.0000	56.0628
Total	0.0382	0.1828	0.5677	1.6200e-003	0.0931	3.7100e-003	0.0968	0.0252	3.4200e-003	0.0286	0.0000	117.8365	117.8365	3.0000e-003	0.0000	117.8995

3.4 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0745	0.1176	1.9000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	16.5962	16.5962	9.1000e-004	0.0000	16.6152
Total	2.6183	0.0745	0.1176	1.9000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	16.5962	16.5962	9.1000e-004	0.0000	16.6152

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	1.6400e-003	2.3400e-003	0.0251	1.2000e-004	9.9800e-003	8.0000e-005	0.0101	2.6500e-003	7.0000e-005	2.7300e-003	0.0000	7.1810	7.1810	2.9000e-004	0.0000	7.1870
Total	1.6400e-003	2.3400e-003	0.0251	1.2000e-004	9.9800e-003	8.0000e-005	0.0101	2.6500e-003	7.0000e-005	2.7300e-003	0.0000	7.1810	7.1810	2.9000e-004	0.0000	7.1870

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9300e-003	8.3700e-003	0.1191	1.9000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	16.5961	16.5961	9.1000e-004	0.0000	16.6151
Total	2.6091	8.3700e-003	0.1191	1.9000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	16.5961	16.5961	9.1000e-004	0.0000	16.6151

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	1.6400e-003	2.3400e-003	0.0251	1.2000e-004	9.9800e-003	8.0000e-005	0.0101	2.6500e-003	7.0000e-005	2.7300e-003	0.0000	7.1810	7.1810	2.9000e-004	0.0000	7.1870
Total	1.6400e-003	2.3400e-003	0.0251	1.2000e-004	9.9800e-003	8.0000e-005	0.0101	2.6500e-003	7.0000e-005	2.7300e-003	0.0000	7.1810	7.1810	2.9000e-004	0.0000	7.1870

3.5 Paving - 2029

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	0.0485	0.4548	0.7710	1.2000e-003		0.0222	0.0222		0.0204	0.0204	0.0000	105.8041	105.8041	0.0342	0.0000	106.5227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0485	0.4548	0.7710	1.2000e-003		0.0222	0.0222		0.0204	0.0204	0.0000	105.8041	105.8041	0.0342	0.0000	106.5227

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	1.4600e-003	2.0900e-003	0.0224	1.1000e-004	8.8900e-003	7.0000e-005	8.9600e-003	2.3600e-003	7.0000e-005	2.4300e-003	0.0000	6.3918	6.3918	2.5000e-004	0.0000	6.3972
Total	1.4600e-003	2.0900e-003	0.0224	1.1000e-004	8.8900e-003	7.0000e-005	8.9600e-003	2.3600e-003	7.0000e-005	2.4300e-003	0.0000	6.3918	6.3918	2.5000e-004	0.0000	6.3972

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	0.0148	0.0642	0.9141	1.2000e-003		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	105.8039	105.8039	0.0342	0.0000	106.5225
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0148	0.0642	0.9141	1.2000e-003		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	105.8039	105.8039	0.0342	0.0000	106.5225

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	1.4600e-003	2.0900e-003	0.0224	1.1000e-004	8.8900e-003	7.0000e-005	8.9600e-003	2.3600e-003	7.0000e-005	2.4300e-003	0.0000	6.3918	6.3918	2.5000e-004	0.0000	6.3972
Total	1.4600e-003	2.0900e-003	0.0224	1.1000e-004	8.8900e-003	7.0000e-005	8.9600e-003	2.3600e-003	7.0000e-005	2.4300e-003	0.0000	6.3918	6.3918	2.5000e-004	0.0000	6.3972

3.6 Building Construction 2 - 2029

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	6.8000e-004	6.2000e-003	8.0300e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	1.1548	1.1548	2.7000e-004	0.0000	1.1605
Total	6.8000e-004	6.2000e-003	8.0300e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	1.1548	1.1548	2.7000e-004	0.0000	1.1605

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	1.0000e-004	6.5000e-004	1.5400e-003	0.0000	1.1000e-004	2.0000e-005	1.3000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.3371	0.3371	0.0000	0.0000	0.3371
Worker	6.0000e-005	9.0000e-005	9.9000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2841	0.2841	1.0000e-005	0.0000	0.2843
Total	1.6000e-004	7.4000e-004	2.5300e-003	0.0000	5.0000e-004	2.0000e-005	5.3000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	0.6212	0.6212	1.0000e-005	0.0000	0.6215

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	2.1000e-004	1.2000e-003	8.7400e-003	1.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.1548	1.1548	2.7000e-004	0.0000	1.1605
Total	2.1000e-004	1.2000e-003	8.7400e-003	1.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.1548	1.1548	2.7000e-004	0.0000	1.1605

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	1.0000e-004	6.5000e-004	1.5400e-003	0.0000	1.1000e-004	2.0000e-005	1.3000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.3371	0.3371	0.0000	0.0000	0.3371
Worker	6.0000e-005	9.0000e-005	9.9000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2841	0.2841	1.0000e-005	0.0000	0.2843
Total	1.6000e-004	7.4000e-004	2.5300e-003	0.0000	5.0000e-004	2.0000e-005	5.3000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	0.6212	0.6212	1.0000e-005	0.0000	0.6215

3.6 Building Construction 2 - 2030

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	0.1493	0.9066	1.8470	3.5300e-003		0.0169	0.0169		0.0169	0.0169	0.0000	299.6549	299.6549	0.0120	0.0000	299.9075
Total	0.1493	0.9066	1.8470	3.5300e-003		0.0169	0.0169		0.0169	0.0169	0.0000	299.6549	299.6549	0.0120	0.0000	299.9075

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	0.0226	0.1477	0.3500	9.1000e-004	0.0261	3.7500e-003	0.0298	7.4500e-003	3.4500e-003	0.0109	0.0000	77.1932	77.1932	5.2000e-004	0.0000	77.2041
Worker	0.0142	0.0204	0.2199	1.1100e-003	0.0905	7.3000e-004	0.0912	0.0240	6.7000e-004	0.0247	0.0000	64.6302	64.6302	2.5300e-003	0.0000	64.6834
Total	0.0368	0.1681	0.5699	2.0200e-003	0.1165	4.4800e-003	0.1210	0.0315	4.1200e-003	0.0356	0.0000	141.8234	141.8234	3.0500e-003	0.0000	141.8875

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	0.0443	0.2661	1.9996	3.5300e-003		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003	0.0000	299.6546	299.6546	0.0120	0.0000	299.9072
Total	0.0443	0.2661	1.9996	3.5300e-003		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003	0.0000	299.6546	299.6546	0.0120	0.0000	299.9072

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	0.0226	0.1477	0.3500	9.1000e-004	0.0261	3.7500e-003	0.0298	7.4500e-003	3.4500e-003	0.0109	0.0000	77.1932	77.1932	5.2000e-004	0.0000	77.2041
Worker	0.0142	0.0204	0.2199	1.1100e-003	0.0905	7.3000e-004	0.0912	0.0240	6.7000e-004	0.0247	0.0000	64.6302	64.6302	2.5300e-003	0.0000	64.6834
Total	0.0368	0.1681	0.5699	2.0200e-003	0.1165	4.4800e-003	0.1210	0.0315	4.1200e-003	0.0356	0.0000	141.8234	141.8234	3.0500e-003	0.0000	141.8875

Appendix D. 2

Operational Emissions – CalEEMod Output (Annual)

- Existing Operations
- Interim Operations
- Full Build-Out Operations

Appendix D. 2

Operational Emissions – CalEEMod Output (Annual)

Existing Operations

Harbor-UCLA Medical Center (Existing Operations)
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.43	1000sqft	0.54	23,435.00	0
Hospital	373.00	Bed	6.13	266,977.58	0
Medical Office Building	327.30	1000sqft	7.51	327,304.00	0
Research & Development	94.75	1000sqft	2.18	94,754.00	0
Library	22.50	1000sqft	0.52	22,500.00	0
General Light Industry	112.72	1000sqft	2.59	112,719.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Vehicle Trips - See Traffic Study

Energy Mitigation -

Energy Use - See "Existing and Project Operational Inputs (Existing Elec Existing NG)

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	4.29	4.63
tblEnergyUse	LightingElect	5.60	5.99
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	4.29	4.63
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	2.23	2.38
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	5.62	6.30
tblEnergyUse	T24E	10.44	11.85
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	5.62	6.30
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	0.79	0.89
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	10.54	12.44
tblEnergyUse	T24NG	55.22	63.57
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	10.54	12.44
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	0.88	1.04
tblLandUse	LandUseSquareFeet	23,430.00	23,435.00
tblLandUse	LandUseSquareFeet	327,300.00	327,304.00
tblLandUse	LandUseSquareFeet	94,750.00	94,754.00
tblLandUse	LandUseSquareFeet	112,720.00	112,719.00
tblLandUse	LandUseSquareFeet	45,400.00	45,402.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	18.60

tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	10.14
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	18.60
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	10.14
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	18.60
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	10.14
tblVehicleTrips	WD_TR	2.59	3.56

2.0 Emissions Summary

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	4.2633	1.3000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0248	0.0248	7.0000e-005	0.0000	0.0263
Energy	0.1553	1.4122	1.1862	8.4700e-003		0.1073	0.1073		0.1073	0.1073	0.0000	5,932.8995	5,932.8995	0.2315	0.0700	5,959.4576
Mobile	13.3533	39.0984	152.4257	0.3343	22.2313	0.5299	22.7612	5.9537	0.4871	6.4409	0.0000	26,742.2471	26,742.2471	1.1521	0.0000	26,766.4411
Waste						0.0000	0.0000		0.0000	0.0000	985.7566	0.0000	985.7566	58.2566	0.0000	2,209.1441

Water						0.0000	0.0000		0.0000	0.0000	51.5829	662.6202	714.2031	5.3276	0.1312	866.7538
Total	17.7720	40.5107	153.6250	0.3427	22.2313	0.6373	22.8685	5.9537	0.5945	6.5482	1,037.3395	33,337.7916	34,375.1311	64.9678	0.2012	35,801.8228

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	13.3533	39.0984	152.4257	0.3343	22.2313	0.5299	22.7612	5.9537	0.4871	6.4409	0.0000	26,742.2471	26,742.2471	1.1521	0.0000	26,766.4411
Unmitigated	13.3533	39.0984	152.4257	0.3343	22.2313	0.5299	22.7612	5.9537	0.4871	6.4409	0.0000	26,742.2471	26,742.2471	1.1521	0.0000	26,766.4411

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	169.08	169.08	169.08	748,733	748,733
General Office Building	435.80	435.80	435.80	1,403,906	1,403,906
Hospital	4,826.62	4,826.62	4,826.62	18,712,042	18,712,042
Library	1,265.40	1,265.40	1,265.40	3,194,737	3,194,737
Medical Office Building	11,825.35	11,825.35	11,825.35	30,673,282	30,673,282
Research & Development	960.77	960.77	960.77	3,246,089	3,246,089
Unrefrigerated Warehouse-No Rail	161.62	161.62	161.62	692,675	692,675
Total	19,644.64	19,644.64	19,644.64	58,671,465	58,671,465

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

5.0 Energy Detail

4.4 Fleet Mix

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	4,395.5843	4,395.5843	0.2021	0.0418	4,412.7865
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,395.5843	4,395.5843	0.2021	0.0418	4,412.7865
NaturalGas Mitigated	0.1553	1.4122	1.1862	8.4700e-003		0.1073	0.1073		0.1073	0.1073	0.0000	1,537.3152	1,537.3152	0.0295	0.0282	1,546.6710
NaturalGas Unmitigated	0.1553	1.4122	1.1862	8.4700e-003		0.1073	0.1073		0.1073	0.1073	0.0000	1,537.3152	1,537.3152	0.0295	0.0282	1,546.6710

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	300671	1.6200e-003	0.0147	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0450	16.0450	3.1000e-004	2.9000e-004	16.1426
Hospital	1.95935e+007	0.1057	0.9605	0.8068	5.7600e-003		0.0730	0.0730		0.0730	0.0730	0.0000	1,045.5830	1,045.5830	0.0200	0.0192	1,051.9462

Library	456525	2.4600e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	24.3619	24.3619	4.7000e-004	4.5000e-004	24.5102
Medical Office Building	4.19931e+006	0.0226	0.2059	0.1729	1.2400e-003		0.0156	0.0156		0.0156	0.0156	0.0000	224.0912	224.0912	4.3000e-003	4.1100e-003	225.4550
Research & Development	1.92256e+006	0.0104	0.0942	0.0792	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.5951	102.5951	1.9700e-003	1.8800e-003	103.2194
Unrefrigerated Warehouse-No Rail	48580.1	2.6000e-004	2.3800e-003	2.0000e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5924	2.5924	5.0000e-005	5.0000e-005	2.6082
General Light Industry	2.28707e+006	0.0123	0.1121	0.0942	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003	0.0000	122.0467	122.0467	2.3400e-003	2.2400e-003	122.7894
Total		0.1553	1.4122	1.1862	8.4700e-003		0.1073	0.1073		0.1073	0.1073	0.0000	1,537.3152	1,537.3152	0.0295	0.0282	1,546.6710

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.4304e+006	409.3343	0.0188	3.8900e-003	410.9362
General Office Building	364414	104.2833	4.7900e-003	9.9000e-004	104.6914
Hospital	6.77856e+006	1,939.7997	0.0892	0.0185	1,947.3911
Library	285525	81.7078	3.7600e-003	7.8000e-004	82.0276
Medical Office Building	5.08958e+006	1,456.4685	0.0670	0.0139	1,462.1684
Research & Development	1.20243e+006	344.0952	0.0158	3.2700e-003	345.4418
Unrefrigerated Warehouse-No Rail	209303	59.8957	2.7500e-003	5.7000e-004	60.1301
Total		4,395.5843	0.2021	0.0418	4,412.7865

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.2633	1.3000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0248	0.0248	7.0000e-005	0.0000	0.0263
Unmitigated	4.2633	1.3000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0248	0.0248	7.0000e-005	0.0000	0.0263

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	1.0349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2800e-003	1.3000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0248	0.0248	7.0000e-005	0.0000	0.0263
Total	4.2633	1.3000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0248	0.0248	7.0000e-005	0.0000	0.0263

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	714.2031	5.3276	0.1312	866.7538
Unmitigated	714.2031	5.3285	0.1314	866.8361

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	26.0665 / 0	105.3981	0.8537	0.0210	129.8192
General Office Building	4.1643 / 2.55231	24.9527	0.1368	3.4200e-003	28.8859
Hospital	33.5005 / 6.38105	155.7443	1.0981	0.0271	187.2096
Library	0.704 / 1.10113	6.3474	0.0232	6.0000e-004	7.0207
Medical Office Building	41.0698 / 7.82282	190.9341	1.3462	0.0332	229.5087
Research & Development	46.588 / 0	188.3755	1.5258	0.0374	232.0227
Unrefrigerated Warehouse-No Dry	10.4987 / 0	42.4510	0.3438	8.4400e-003	52.2870
Total		714.2031	5.3276	0.1312	866.7538

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	985.7566	58.2566	0.0000	2,209.1441
Unmitigated	985.7566	58.2566	0.0000	2,209.1441

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	139.77	28.3721	1.6767	0.0000	63.5836
General Office Building	21.79	4.4232	0.2614	0.0000	9.9126
Hospital	1089.16	221.0896	13.0660	0.0000	495.4761
Library	20.72	4.2060	0.2486	0.0000	9.4259
Medical Office Building	3534.84	717.5406	42.4054	0.0000	1,608.0547
Research & Development	7.2	1.4615	0.0864	0.0000	3.2754
Unrefrigerated Warehouse-No Dry	42.68	8.6637	0.5120	0.0000	19.4158
Total		985.7566	58.2565	0.0000	2,209.1441

9.0 Operational Offroad

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

Appendix D. 2

Operational Emissions – CalEEMod Output (Annual)

Interim Operations

Harbor-UCLA Medical Center (Interim Operations)
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	52.64	1000sqft	1.21	52,635.00	0
General Light Industry	129.21	1000sqft	2.97	129,205.00	0
Hospital	379.00	Bed	6.23	271,272.12	0
Library	22.50	1000sqft	0.52	22,500.00	0
Medical Office Building	338.70	1000sqft	7.78	338,700.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	0
Research & Development	237.50	1000sqft	5.45	237,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Vehicle Trips - See Traffic Study

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	OperationalYear	2014	2023
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	15.31
tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	9.76
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	15.31
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	9.76
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	15.31
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	9.76
tblVehicleTrips	WD_TR	2.59	3.56

2.0 Emissions Summary

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	5.2376	1.4000e-004	0.0154	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0299	0.0299	8.0000e-005	0.0000	0.0316
Energy	0.1246	1.1323	0.9512	6.7900e-003		0.0861	0.0861		0.0861	0.0861	0.0000	5,650.7909	5,650.7909	0.2267	0.0646	5,675.5832
Mobile	10.0021	24.4586	111.1388	0.3802	25.0115	0.5190	25.5305	6.7012	0.4789	7.1800	0.0000	25,945.8081	25,945.8081	0.8744	0.0000	25,964.1703
Waste						0.0000	0.0000		0.0000	0.0000	1,026.1721	0.0000	1,026.1721	60.6450	0.0000	2,299.7178
Water						0.0000	0.0000		0.0000	0.0000	77.3318	976.3492	1,053.6810	7.9862	0.1965	1,282.3145
Total	15.3643	25.5911	112.1053	0.3870	25.0115	0.6051	25.6166	6.7012	0.5650	7.2661	1,103.5039	32,572.9781	33,676.4820	69.7324	0.2612	35,221.8173

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	10.0021	24.4586	111.1388	0.3802	25.0115	0.5190	25.5305	6.7012	0.4789	7.1800	0.0000	25,945.8081	25,945.8081	0.8744	0.0000	25,964.1703
Unmitigated	10.0021	24.4586	111.1388	0.3802	25.0115	0.5190	25.5305	6.7012	0.4789	7.1800	0.0000	25,945.8081	25,945.8081	0.8744	0.0000	25,964.1703

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	193.81	193.81	193.81	858,233	858,233
General Office Building	805.84	805.84	805.84	2,595,988	2,595,988
Hospital	4,904.26	4,904.26	4904.26	19,013,040	19,013,040
Library	1,265.40	1,265.40	1265.40	3,194,737	3,194,737
Medical Office Building	12,237.23	12,237.23	12237.23	31,741,646	31,741,646
Research & Development	2,318.00	2,318.00	2318.00	7,831,712	7,831,712
Unrefrigerated Warehouse-No Rail	161.63	161.63	161.63	692,705	692,705
Total	21,886.17	21,886.17	21,886.17	65,928,062	65,928,062

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.522550	0.057918	0.180146	0.126595	0.040312	0.006532	0.017397	0.036650	0.002593	0.003201	0.003751	0.000525	0.001830

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	4,418.0987	4,418.0987	0.2031	0.0420	4,435.3891
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,857.1907	4,857.1907	0.2233	0.0462	4,876.1994
NaturalGas Mitigated	0.1246	1.1323	0.9512	6.7900e-003		0.0861	0.0861		0.0861	0.0861	0.0000	1,232.6921	1,232.6921	0.0236	0.0226	1,240.1941
NaturalGas Unmitigated	0.1579	1.4355	1.2058	8.6100e-003		0.1091	0.1091		0.1091	0.1091	0.0000	1,562.6573	1,562.6573	0.0300	0.0287	1,572.1674

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	342450	1.8500e-003	0.0168	0.0141	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.2744	18.2744	3.5000e-004	3.4000e-004	18.3857
Medical Office Building	2.80952e+006	0.0152	0.1377	0.1157	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.9265	149.9265	2.8700e-003	2.7500e-003	150.8389
Research & Development	3.61475e+006	0.0195	0.1772	0.1488	1.0600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	192.8968	192.8968	3.7000e-003	3.5400e-003	194.0708
Unrefrigerated Warehouse-No Rail	31327.4	1.7000e-004	1.5400e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6718	1.6718	3.0000e-005	3.0000e-005	1.6819
General Light Industry	1.9665e+006	0.0106	0.0964	0.0810	5.8000e-004		7.3300e-003	7.3300e-003		7.3300e-003	7.3300e-003	0.0000	104.9399	104.9399	2.0100e-003	1.9200e-003	105.5786
General Office Building	436607	2.3500e-003	0.0214	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	23.2990	23.2990	4.5000e-004	4.3000e-004	23.4408
Hospital	1.38986e+007	0.0749	0.6813	0.5723	4.0900e-003		0.0518	0.0518		0.0518	0.0518	0.0000	741.6837	741.6837	0.0142	0.0136	746.1974
Total		0.1246	1.1324	0.9512	6.8000e-003		0.0861	0.0861		0.0861	0.0861	0.0000	1,232.6922	1,232.6922	0.0236	0.0226	1,240.1941

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.46809e+006	420.1193	0.0193	4.0000e-003	421.7634
General Office Building	690834	197.6939	9.0900e-003	1.8800e-003	198.4676
Hospital	5.69129e+006	1,628.6585	0.0749	0.0155	1,635.0323
Library	255656	73.1604	3.3600e-003	7.0000e-004	73.4467
Medical Office Building	4.44544e+006	1,272.1370	0.0585	0.0121	1,277.1156
Research & Development	2.69859e+006	772.2482	0.0355	7.3400e-003	775.2704
Unrefrigerated Warehouse-No Cold	188986	54.0815	2.4900e-003	5.1000e-004	54.2931
Total		4,418.0987	0.2031	0.0420	4,435.3890

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2376	1.4000e-004	0.0154	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0299	0.0299	8.0000e-005	0.0000	0.0316
Unmitigated	5.2376	1.4000e-004	0.0154	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0299	0.0299	8.0000e-005	0.0000	0.0316

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	1.2714					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9648					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4200e-003	1.4000e-004	0.0154	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0299	0.0299	8.0000e-005	0.0000	0.0316
Total	5.2376	1.4000e-004	0.0154	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0299	0.0299	8.0000e-005	0.0000	0.0316

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,053.6810	7.9862	0.1965	1,282.3145
Unmitigated	1,053.6810	7.9876	0.1968	1,282.4379

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	29.8798 / 0	120.8170	0.9786	0.0240	148.8107
General Office Building	9.35413 / 5.73317	56.0504	0.3072	7.6900e-003	64.8854
Hospital	34.0394 / 6.48369	158.2496	1.1158	0.0276	190.2210
Library	0.704 / 1.10113	6.3474	0.0232	6.0000e-004	7.0207
Medical Office Building	42.5003 / 8.09529	197.5844	1.3931	0.0344	237.5026
Research & Development	116.777 / 0	472.1812	3.8245	0.0938	581.5872
Unrefrigerated Warehouse-No	10.4987 / 0	42.4510	0.3438	8.4400e-003	52.2870
Total		1,053.6810	7.9862	0.1965	1,282.3145

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,026.1721	60.6450	0.0000	2,299.7178
Unmitigated	1,026.1721	60.6450	0.0000	2,299.7178

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	160.22	32.5232	1.9221	0.0000	72.8866
General Office Building	48.95	9.9364	0.5872	0.0000	22.2681
Hospital	1106.68	224.6460	13.2762	0.0000	503.4463
Library	20.72	4.2060	0.2486	0.0000	9.4259
Medical Office Building	3657.96	742.5328	43.8824	0.0000	1,664.0639
Research & Development	18.05	3.6640	0.2165	0.0000	8.2112
Unrefrigerated Warehouse-No	42.68	8.6637	0.5120	0.0000	19.4158
Total		1,026.1721	60.6450	0.0000	2,299.7178

9.0 Operational Offroad

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

Appendix D. 2

Operational Emissions – CalEEMod Output (Annual)

Full Build-Out Operations

**Harbor-UCLA Medical Center (Full Build-Out Operations)
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	130.64	1000sqft	3.00	130,635.00	0
General Light Industry	129.21	1000sqft	2.97	129,205.00	0
Hospital	379.00	Bed	6.23	271,272.12	0
Library	22.50	1000sqft	0.52	22,500.00	0
Medical Office Building	412.60	1000sqft	9.47	412,598.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	0
Research & Development	475.00	1000sqft	10.90	475,000.00	0
Strip Mall	35.00	1000sqft	0.80	35,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Vehicle Trips - See Traffic Study
- Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	129,210.00	129,205.00
tblLandUse	LandUseSquareFeet	45,400.00	45,402.00
tblProjectCharacteristics	OperationalYear	2014	2030
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	12.31
tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	8.67
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	ST_TR	42.04	42.70
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	12.31
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	8.67
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	SU_TR	20.43	42.70
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	12.31
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	8.67
tblVehicleTrips	WD_TR	2.59	3.56
tblVehicleTrips	WD_TR	44.32	42.70

2.0 Emissions Summary

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	7.2634	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0404	0.0404	1.0000e-004	0.0000	0.0426
Energy	0.1511	1.3737	1.1539	8.2400e-003		0.1044	0.1044		0.1044	0.1044	0.0000	7,395.9749	7,395.9749	0.2999	0.0835	7,428.1677
Mobile	10.8974	27.3852	120.7752	0.4977	32.0449	0.6929	32.7379	8.5895	0.6395	9.2290	0.0000	32,623.5315	32,623.5315	0.9512	0.0000	32,643.5069
Waste						0.0000	0.0000		0.0000	0.0000	1,214.0321	0.0000	1,214.0321	71.7472	0.0000	2,720.7242
Water						0.0000	0.0000		0.0000	0.0000	122.5424	1,545.0340	1,667.5764	12.6550	0.3114	2,029.8679
Total	18.3119	28.7591	121.9498	0.5060	32.0449	0.7974	32.8423	8.5895	0.7440	9.3335	1,336.5745	41,564.5808	42,901.1553	85.6534	0.3949	44,822.3093

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	10.8974	27.3852	120.7752	0.4977	32.0449	0.6929	32.7379	8.5895	0.6395	9.2290	0.0000	32,623.5315	32,623.5315	0.9512	0.0000	32,643.5069
Unmitigated	10.8974	27.3852	120.7752	0.4977	32.0449	0.6929	32.7379	8.5895	0.6395	9.2290	0.0000	32,623.5315	32,623.5315	0.9512	0.0000	32,643.5069

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	193.82	193.82	193.82	858,267	858,267
General Office Building	1,608.12	1,608.12	1608.12	5,180,486	5,180,486
Hospital	4,904.26	4,904.26	4904.26	19,013,040	19,013,040
Library	1,265.40	1,265.40	1265.40	3,194,737	3,194,737
Medical Office Building	14,907.17	14,907.17	14907.17	38,667,079	38,667,079
Research & Development	4,118.25	4,118.25	4118.25	13,914,128	13,914,128
Unrefrigerated Warehouse-No Rail	161.62	161.62	161.62	692,675	692,675
Strip Mall	1,494.50	1,494.50	1494.50	2,843,429	2,843,429
Total	28,653.13	28,653.13	28,653.13	84,363,840	84,363,840

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508453	0.058534	0.182003	0.128323	0.043028	0.007073	0.018375	0.041612	0.002788	0.003272	0.003888	0.000508	0.002143

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	5,900.5377	5,900.5377	0.2712	0.0561	5,923.6295
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,459.6975	6,459.6975	0.2969	0.0614	6,484.9777
NaturalGas Mitigated	0.1511	1.3737	1.1539	8.2400e-003		0.1044	0.1044		0.1044	0.1044	0.0000	1,495.4372	1,495.4372	0.0287	0.0274	1,504.5382
NaturalGas Unmitigated	0.1913	1.7387	1.4605	0.0104		0.1321	0.1321		0.1321	0.1321	0.0000	1,892.8256	1,892.8256	0.0363	0.0347	1,904.3450

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hospital	1.38986e+007	0.0749	0.6813	0.5723	4.0900e-003		0.0518	0.0518		0.0518	0.0518	0.0000	741.6837	741.6837	0.0142	0.0136	746.1974
Library	342450	1.8500e-003	0.0168	0.0141	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.2744	18.2744	3.5000e-004	3.4000e-004	18.3857
Medical Office Building	3.4225e+006	0.0185	0.1678	0.1409	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	182.6377	182.6377	3.5000e-003	3.3500e-003	183.7492
Research & Development	7.2295e+006	0.0390	0.3544	0.2977	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.7937	385.7937	7.3900e-003	7.0700e-003	388.1415
Strip Mall	48912.5	2.6000e-004	2.4000e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6102	2.6102	5.0000e-005	5.0000e-005	2.6260
Unrefrigerated Warehouse-No	31327.4	1.7000e-004	1.5400e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6718	1.6718	3.0000e-005	3.0000e-005	1.6819
General Light Industry	1.9665e+006	0.0106	0.0964	0.0810	5.8000e-004		7.3300e-003	7.3300e-003		7.3300e-003	7.3300e-003	0.0000	104.9399	104.9399	2.0100e-003	1.9200e-003	105.5786
General Office Building	1.08362e+006	5.8400e-003	0.0531	0.0446	3.2000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	57.8260	57.8260	1.1100e-003	1.0600e-003	58.1779
Total		0.1511	1.3737	1.1539	8.2500e-003		0.1044	0.1044		0.1044	0.1044	0.0000	1,495.4372	1,495.4372	0.0287	0.0274	1,504.5382

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.46809e+006	420.1193	0.0193	4.0000e-003	421.7634
General Office Building	1.71458e+006	490.6573	0.0226	4.6700e-003	492.5775
Hospital	5.69129e+006	1,628.6585	0.0749	0.0155	1,635.0323
Library	255656	73.1604	3.3600e-003	7.0000e-004	73.4467
Medical Office Building	5.41535e+006	1,549.6935	0.0712	0.0147	1,555.7583
Research & Development	5.39719e+006	1,544.4964	0.0710	0.0147	1,550.5408
Strip Mall	488075	139.6709	6.4200e-003	1.3300e-003	140.2175
Unrefrigerated Warehouse-No Pail	188986	54.0815	2.4900e-003	5.1000e-004	54.2931
Total		5,900.5377	0.2712	0.0561	5,923.6295

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.2634	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0404	0.0404	1.0000e-004	0.0000	0.0426
Unmitigated	7.2634	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0404	0.0404	1.0000e-004	0.0000	0.0426

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	1.7632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.4984					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8900e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0404	0.0404	1.0000e-004	0.0000	0.0426	
Total	7.2634	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0404	0.0404	1.0000e-004	0.0000	0.0426	

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,667.5764	12.6550	0.3114	2,029.8679
Unmitigated	1,667.5764	12.6573	0.3119	2,030.0634

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	29.8798 / 0	120.8170	0.9786	0.0240	148.8107
General Office Building	23.2174 / 14.23	139.1195	0.7625	0.0191	161.0483

Hospital	34.0394 / 6.48369	158.2496	1.1158	0.0276	190.2210
Library	0.704 / 1.10113	6.3474	0.0232	6.0000e- 004	7.0207
Medical Office Building	51.7733 / 9.86158	240.6948	1.6970	0.0419	289.3227
Research & Development	233.555 / 0	944.3625	7.6490	0.1877	1,163.174 3
Strip Mall	2.59254 / 1.58898	15.5346	0.0851	2.1300e- 003	17.9833
Unrefrigerated Warehouse-No Poll	10.4987 / 0	42.4510	0.3438	8.4400e- 003	52.2870
Total		1,667.5763	12.6550	0.3114	2,029.867 9

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,214.0321	71.7472	0.0000	2,720.724 2
Unmitigated	1,214.0321	71.7472	0.0000	2,720.724 2

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	160.22	32.5232	1.9221	0.0000	72.8866

General Office Building	121.49	24.6614	1.4575	0.0000	55.2677
Hospital	1106.68	224.6460	13.2762	0.0000	503.4463
Library	20.72	4.2060	0.2486	0.0000	9.4259
Medical Office Building	4456.08	904.5440	53.4570	0.0000	2,027.1413
Research & Development	36.1	7.3280	0.4331	0.0000	16.4225
Strip Mall	36.75	7.4599	0.4409	0.0000	16.7182
Unrefrigerated Warehouse-No	42.68	8.6637	0.5120	0.0000	19.4158
Total		1,214.0321	71.7473	0.0000	2,720.7242

9.0 Operational Offroad

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

Appendix D. 3
Mobile Source Emission Calculations

Harbor-UCLA Medical Center

GHG Operational Emissions: Mobile Emissions

CARB Emission Factors

Phase	Year	CARB EF (g CO₂/mi)
Existing	2015	447
Interim	2023	391
Full Build	2030	350

Source: CARB, Statewide On-Road CO₂ EFs for Mobile Sources, March 2014.

CalEEMod Mobile Output

Phase	Year	VMT (mi)¹
Existing	2015	58,671,465
Interim	2023	65,928,062
Full Build	2030	84,363,840

Source: PCR Services, 2016.

Mobile Source GHG Calculations

Phase	Year	CO₂ (MT/yr)²	CH₄ (MT/yr)¹	Total Mobile Emissions (MT CO₂e/yr)³
Existing	2015	26,226	1.15	26,255
Interim	2023	25,778	0.87	25,800
Full Build	2030	29,527	0.95	29,551

¹ From CalEEMod Annual Outputs.

² CO₂ (MT/yr) = CARB EF * VMT

³ CO₂e (MT/yr) = CO₂ (MT/yr) + (CH₄ MT/yr * CH₄ GWP)

Source: PCR Services, 2016.