

3600 Wilshire Boulevard, Construction (All Phases) - Los Angeles-South Coast County, Summer

3600 Wilshire Boulevard, Construction (All Phases)**Los Angeles-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,131.00	Space	0.00	452,400.00	0
Strip Mall	9.37	1000sqft	0.22	9,367.00	0
Apartments High Rise	760.00	Dwelling Unit	4.00	1,034,163.00	2174

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2024
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 - Developer information

Land Use - Developer information

Construction Phase - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Trips and VMT - Developer information

Demolition - Developer information

Grading - Developer information

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Vehicle Trips - Traffic study trip generation rates

Woodstoves - Developer information

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	47
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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	18.00	109.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	8.00	42.00
tblConstructionPhase	NumDays	230.00	77.00
tblConstructionPhase	NumDays	18.00	108.00
tblConstructionPhase	NumDays	230.00	391.00
tblFireplaces	NumberGas	646.00	0.00
tblFireplaces	NumberNoFireplace	76.00	760.00
tblFireplaces	NumberWood	38.00	0.00
tblGrading	AcresOfGrading	21.00	4.00
tblGrading	MaterialExported	0.00	125,400.00
tblGrading	MaterialImported	0.00	3,500.00
tblLandUse	LandUseSquareFeet	760,000.00	1,034,163.00
tblLandUse	LotAcreage	10.18	0.00
tblLandUse	LotAcreage	12.26	4.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37

tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripNumber	15,675.00	12,540.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	4.98	4.32
tblVehicleTrips	ST_TR	42.04	14.09
tblVehicleTrips	SU_TR	20.43	14.09
tblVehicleTrips	WD_TR	4.20	4.32
tblVehicleTrips	WD_TR	44.32	14.09
tblWoodstoves	NumberCatalytic	38.00	0.00
tblWoodstoves	NumberNoncatalytic	38.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

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

2021	5.3368	61.9717	39.2934	0.1208	10.6835	2.1293	12.8127	1.8029	1.9935	3.7964	0.0000	12,089.620	12,089.620	2.3162	0.0000	12,147.524
												1	1			3
2022	68.5970	158.0131	84.0629	0.4128	24.2075	3.2669	27.4744	7.0706	3.0627	10.1333	0.0000	43,134.762	43,134.762	5.4010	0.0000	43,269.787
												8	8			0
2023	71.4096	63.5929	95.9584	0.2402	10.9309	2.4716	13.4026	2.9218	2.4111	5.3329	0.0000	23,546.470	23,546.470	1.7830	0.0000	23,591.046
												9	9			3
Maximum	71.4096	158.0131	95.9584	0.4128	24.2075	3.2669	27.4744	7.0706	3.0627	10.1333	0.0000	43,134.762	43,134.762	5.4010	0.0000	43,269.787
												8	8			0

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.4527	17.0110	44.8249	0.1208	4.3438	0.1636	4.5074	0.7840	0.1615	0.9455	0.0000	12,089.620	12,089.620	2.3162	0.0000	12,147.524
												1	1			3
2022	66.6203	98.0553	93.7160	0.4128	11.1251	0.5226	11.6477	3.2727	0.5109	3.7836	0.0000	43,134.762	43,134.762	5.4010	0.0000	43,269.787
												8	8			0
2023	67.1039	26.5724	98.9726	0.2402	6.5387	0.4427	6.9814	1.8437	0.4362	2.2799	0.0000	23,546.470	23,546.470	1.7830	0.0000	23,591.046
												9	9			3
Maximum	67.1039	98.0553	98.9726	0.4128	11.1251	0.5226	11.6477	3.2727	0.5109	3.7836	0.0000	43,134.762	43,134.762	5.4010	0.0000	43,269.787
												8	8			0

	ROG	NOx	CO	SO2	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	6.99	50.05	-8.30	0.00	51.97	85.65	56.91	49.98	85.15	63.61	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738

Energy	0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140
Mobile	5.3016	22.5003	71.9773	0.2831	24.3744	0.2080	24.5824	6.5223	0.1933	6.7156		28,850.9905	28,850.9905	1.3342		28,884.3457
Total	30.0575	24.9963	135.5243	0.2977	24.3744	0.6991	25.0735	6.5223	0.6844	7.2067	0.0000	31,226.9074	31,226.9074	1.4866	0.0415	31,276.4335

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738
Energy	0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140
Mobile	5.3016	22.5003	71.9773	0.2831	24.3744	0.2080	24.5824	6.5223	0.1933	6.7156		28,850.9905	28,850.9905	1.3342		28,884.3457
Total	30.0575	24.9963	135.5243	0.2977	24.3744	0.6991	25.0735	6.5223	0.6844	7.2067	0.0000	31,226.9074	31,226.9074	1.4866	0.0415	31,276.4335

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2021	1/15/2022	5	33	
2	Grading	Grading	1/15/2022	3/15/2022	5	42	
3	Garage Construction	Building Construction	3/16/2022	6/30/2022	5	77	
4	Architectural Coating (Garage)	Architectural Coating	2/1/2022	6/30/2022	5	108	
5	Tower Construction	Building Construction	7/1/2022	12/31/2023	5	391	
6	Architectural Coating (Towers)	Architectural Coating	8/1/2023	12/31/2023	5	109	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 2,094,180; Residential Outdoor: 698,060; Non-Residential Indoor: 14,051; Non-Residential Outdoor: 4,684; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	221	0.50
Demolition	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Dumpers/Tenders	3	8.00	16	0.38
Demolition	Excavators	3	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Scrapers	1	8.00	367	0.48
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Cement and Mortar Mixers	1	8.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Welders	1	8.00	46	0.45
Garage Construction	Aerial Lifts	1	8.00	63	0.31
Garage Construction	Air Compressors	2	8.00	78	0.48
Garage Construction	Cement and Mortar Mixers	2	8.00	9	0.56
Garage Construction	Cranes	1	7.00	231	0.29
Garage Construction	Forklifts	2	8.00	89	0.20
Garage Construction	Generator Sets	1	8.00	84	0.74

Garage Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Garage Construction	Welders	1	8.00	46	0.45
Architectural Coating (Garage)	Air Compressors	2	6.00	78	0.48
Tower Construction	Cranes	2	8.00	231	0.29
Tower Construction	Forklifts	4	7.00	89	0.20
Tower Construction	Aerial Lifts	4	8.00	63	0.31
Tower Construction	Air Compressors	4	6.00	78	0.48
Tower Construction	Cement and Mortar Mixers	4	8.00	9	0.56
Tower Construction	Concrete/Industrial Saws	4	8.00	81	0.73
Tower Construction	Welders	4	8.00	46	0.45
Tower Construction	Generator Sets	2	8.00	84	0.74
Tower Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Architectural Coating (Towers)	Air Compressors	4	8.00	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	14	35.00	0.00	1,384.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	12,540.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Garage Construction	13	740.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Garage)	2	148.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Tower Construction	30	740.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Towers)	4	148.00	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
- Replace Ground Cover
- 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	lb/day										lb/day					
Fugitive Dust					9.0745	0.0000	9.0745	1.3740	0.0000	1.3740			0.0000			0.0000
Off-Road	4.7663	48.7833	34.7067	0.0770		2.0833	2.0833		1.9497	1.9497		7,373.4789	7,373.4789	2.0196		7,423.9691
Total	4.7663	48.7833	34.7067	0.0770	9.0745	2.0833	11.1578	1.3740	1.9497	3.3236		7,373.4789	7,373.4789	2.0196		7,423.9691

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4205	13.0853	3.1770	0.0398	1.2178	0.0428	1.2606	0.3252	0.0409	0.3661		4,317.5717	4,317.5717	0.2848		4,324.6922
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1500	0.1031	1.4097	4.0000e-003	0.3912	3.1600e-003	0.3944	0.1038	2.9100e-003	0.1067		398.5695	398.5695	0.0117		398.8630
Total	0.5705	13.1885	4.5867	0.0438	1.6090	0.0460	1.6550	0.4289	0.0439	0.4728		4,716.1412	4,716.1412	0.2966		4,723.5553

Mitigated Construction On-Site

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

Fugitive Dust					3.3621	0.0000	3.3621	0.5091	0.0000	0.5091			0.0000			0.0000
Off-Road	0.8821	3.8225	40.2382	0.0770		0.1176	0.1176		0.1176	0.1176	0.0000	7,373.4789	7,373.4789	2.0196		7,423.9690
Total	0.8821	3.8225	40.2382	0.0770	3.3621	0.1176	3.4797	0.5091	0.1176	0.6267	0.0000	7,373.4789	7,373.4789	2.0196		7,423.9690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4205	13.0853	3.1770	0.0398	0.7504	0.0428	0.7932	0.2104	0.0409	0.2514		4,317.5717	4,317.5717	0.2848		4,324.6922
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1500	0.1031	1.4097	4.0000e-003	0.2314	3.1600e-003	0.2345	0.0645	2.9100e-003	0.0674		398.5695	398.5695	0.0117		398.8630
Total	0.5705	13.1885	4.5867	0.0438	0.9818	0.0460	1.0277	0.2750	0.0439	0.3188		4,716.1412	4,716.1412	0.2966		4,723.5553

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	lb/day										lb/day					
Fugitive Dust					9.0745	0.0000	9.0745	1.3740	0.0000	1.3740			0.0000			0.0000
Off-Road	4.1886	40.9812	33.4076	0.0770		1.7324	1.7324		1.6232	1.6232		7,376.5457	7,376.5457	2.0164		7,426.9563
Total	4.1886	40.9812	33.4076	0.0770	9.0745	1.7324	10.8069	1.3740	1.6232	2.9971		7,376.5457	7,376.5457	2.0164		7,426.9563

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4004	12.1172	3.1471	0.0393	2.5106	0.0372	2.5478	0.6425	0.0356	0.6781		4,266.0550	4,266.0550	0.2812		4,273.0856
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1405	0.0932	1.3006	3.8600e-003	0.3912	3.0600e-003	0.3943	0.1038	2.8200e-003	0.1066		384.5493	384.5493	0.0106		384.8147
Total	0.5409	12.2103	4.4478	0.0431	2.9018	0.0403	2.9421	0.7463	0.0384	0.7847		4,650.6043	4,650.6043	0.2918		4,657.9003

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3621	0.0000	3.3621	0.5091	0.0000	0.5091			0.0000			0.0000
Off-Road	0.8821	3.8225	40.2382	0.0770		0.1176	0.1176		0.1176	0.1176	0.0000	7,376.5457	7,376.5457	2.0164		7,426.9563
Total	0.8821	3.8225	40.2382	0.0770	3.3621	0.1176	3.4797	0.5091	0.1176	0.6267	0.0000	7,376.5457	7,376.5457	2.0164		7,426.9563

Mitigated Construction Off-Site

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

Hauling	0.4004	12.1172	3.1471	0.0393	1.4356	0.0372	1.4728	0.3786	0.0356	0.4142		4,266.0550	4,266.0550	0.2812		4,273.0856
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1405	0.0932	1.3006	3.8600e-003	0.2314	3.0600e-003	0.2344	0.0645	2.8200e-003	0.0673		384.5493	384.5493	0.0106		384.8147
Total	0.5409	12.2103	4.4478	0.0431	1.6670	0.0403	1.7072	0.4432	0.0384	0.4816		4,650.6043	4,650.6043	0.2918		4,657.9003

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	lb/day										lb/day					
Fugitive Dust					6.4702	0.0000	6.4702	3.3737	0.0000	3.3737			0.0000			0.0000
Off-Road	2.9323	27.9824	23.6790	0.0501		1.2682	1.2682		1.1850	1.1850		4,779.9797	4,779.9797	1.3332		4,813.3102
Total	2.9323	27.9824	23.6790	0.0501	6.4702	1.2682	7.7383	3.3737	1.1850	4.5587		4,779.9797	4,779.9797	1.3332		4,813.3102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4653	76.7727	19.3513	0.2398	5.4816	0.2238	5.7054	1.5026	0.2141	1.7167		26,052.9550	26,052.9550	1.7519		26,096.7525
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1004	0.0665	0.9290	2.7600e-003	0.2794	2.1900e-003	0.2816	0.0741	2.0100e-003	0.0761		274.6781	274.6781	7.5800e-003		274.8676
Total	2.5657	76.8392	20.2803	0.2426	5.7611	0.2260	5.9871	1.5767	0.2162	1.7929		26,327.6331	26,327.6331	1.7595		26,371.6201

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3972	0.0000	2.3972	1.2500	0.0000	1.2500			0.0000			0.0000
Off-Road	0.8693	5.1833	28.7498	0.0501		0.1387	0.1387		0.1387	0.1387	0.0000	4,779.9797	4,779.9797	1.3332		4,813.3102
Total	0.8693	5.1833	28.7498	0.0501	2.3972	0.1387	2.5359	1.2500	0.1387	1.3887	0.0000	4,779.9797	4,779.9797	1.3332		4,813.3102

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4653	76.7727	19.3513	0.2398	3.5335	0.2238	3.7574	1.0244	0.2141	1.2386		26,052.9550	26,052.9550	1.7519		26,096.7525
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1004	0.0665	0.9290	2.7600e-003	0.1653	2.1900e-003	0.1675	0.0461	2.0100e-003	0.0481		274.6781	274.6781	7.5800e-003		274.8676
Total	2.5657	76.8392	20.2803	0.2426	3.6988	0.2260	3.9248	1.0705	0.2162	1.2867		26,327.6331	26,327.6331	1.7595		26,371.6201

3.4 Garage 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
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Category	lb/day										lb/day					
Off-Road	2.2887	19.5788	21.7273	0.0364		0.9948	0.9948		0.9518	0.9518		3,414.6100	3,414.6100	0.6741		3,431.4630
Total	2.2887	19.5788	21.7273	0.0364		0.9948	0.9948		0.9518	0.9518		3,414.6100	3,414.6100	0.6741		3,431.4630

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4479	14.4959	3.7704	0.0400	1.0052	0.0273	1.0324	0.2894	0.0261	0.3155		4,278.0284	4,278.0284	0.2455		4,284.1659
Worker	2.9713	1.9695	27.4986	0.0816	8.2715	0.0648	8.3362	2.1936	0.0596	2.2533		8,130.4712	8,130.4712	0.2244		8,136.0813
Total	3.4192	16.4653	31.2689	0.1216	9.2766	0.0920	9.3686	2.4830	0.0857	2.5687		12,408.4996	12,408.4996	0.4699		12,420.2472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6616	3.8910	22.6229	0.0364		0.1125	0.1125		0.1125	0.1125	0.0000	3,414.6100	3,414.6100	0.6741		3,431.4630
Total	0.6616	3.8910	22.6229	0.0364		0.1125	0.1125		0.1125	0.1125	0.0000	3,414.6100	3,414.6100	0.6741		3,431.4630

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4479	14.4959	3.7704	0.0400	0.6686	0.0273	0.6958	0.2068	0.0261	0.2329		4,278.0284	4,278.0284	0.2455		4,284.1659
Worker	2.9713	1.9695	27.4986	0.0816	4.8917	0.0648	4.9565	1.3641	0.0596	1.4237		8,130.4712	8,130.4712	0.2244		8,136.0813
Total	3.4192	16.4653	31.2689	0.1216	5.5603	0.0920	5.6523	1.5708	0.0857	1.6565		12,408.4996	12,408.4996	0.4699		12,420.2472

3.5 Architectural Coating (Garage) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.8858					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123
Total	62.2949	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123

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
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5943	0.3939	5.4997	0.0163	1.6543	0.0130	1.6672	0.4387	0.0119	0.4507		1,626.0942	1,626.0942	0.0449		1,627.2163
Total	0.5943	0.3939	5.4997	0.0163	1.6543	0.0130	1.6672	0.4387	0.0119	0.4507		1,626.0942	1,626.0942	0.0449		1,627.2163

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.8858					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0367		563.8123
Total	61.9452	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0367		563.8123

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5943	0.3939	5.4997	0.0163	0.9783	0.0130	0.9913	0.2728	0.0119	0.2847		1,626.0942	1,626.0942	0.0449		1,627.2163

Total	0.5943	0.3939	5.4997	0.0163	0.9783	0.0130	0.9913	0.2728	0.0119	0.2847		1,626.0942	1,626.0942	0.0449		1,627.2163
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3.6 Tower Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.7811	46.7751	52.7940	0.0913		2.3012	2.3012		2.2398	2.2398		8,502.2616	8,502.2616	1.2643		8,533.8693
Total	5.7811	46.7751	52.7940	0.0913		2.3012	2.3012		2.2398	2.2398		8,502.2616	8,502.2616	1.2643		8,533.8693

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4479	14.4959	3.7704	0.0400	1.0052	0.0273	1.0324	0.2894	0.0261	0.3155		4,278.0284	4,278.0284	0.2455		4,284.1659
Worker	2.9713	1.9695	27.4986	0.0816	8.2715	0.0648	8.3362	2.1936	0.0596	2.2533		8,130.4712	8,130.4712	0.2244		8,136.0813
Total	3.4192	16.4653	31.2689	0.1216	9.2766	0.0920	9.3686	2.4830	0.0857	2.5687		12,408.4996	12,408.4996	0.4699		12,420.2472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0359	12.9179	55.4777	0.0913		0.3685	0.3685		0.3685	0.3685	0.0000	8,502.2616	8,502.2616	1.2643		8,533.8693
Total	2.0359	12.9179	55.4777	0.0913		0.3685	0.3685		0.3685	0.3685	0.0000	8,502.2616	8,502.2616	1.2643		8,533.8693

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4479	14.4959	3.7704	0.0400	0.6686	0.0273	0.6958	0.2068	0.0261	0.2329		4,278.0284	4,278.0284	0.2455		4,284.1659
Worker	2.9713	1.9695	27.4986	0.0816	4.8917	0.0648	4.9565	1.3641	0.0596	1.4237		8,130.4712	8,130.4712	0.2244		8,136.0813
Total	3.4192	16.4653	31.2689	0.1216	5.5603	0.0920	5.6523	1.5708	0.0857	1.6565		12,408.4996	12,408.4996	0.4699		12,420.2472

3.6 Tower Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.3888	43.5065	52.5055	0.0913		2.0057	2.0057		1.9517	1.9517		8,502.7480	8,502.7480	1.2329		8,533.5695
Total	5.3888	43.5065	52.5055	0.0913		2.0057	2.0057		1.9517	1.9517		8,502.7480	8,502.7480	1.2329		8,533.5695

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3323	10.9989	3.4051	0.0387	1.0052	0.0127	1.0179	0.2894	0.0121	0.3016		4,143.3466	4,143.3466	0.2176		4,148.7854
Worker	2.7902	1.7819	25.3238	0.0786	8.2715	0.0629	8.3344	2.1936	0.0579	2.2516		7,832.7667	7,832.7667	0.2023		7,837.8250
Total	3.1225	12.7808	28.7289	0.1173	9.2766	0.0756	9.3523	2.4830	0.0701	2.5531		11,976.1134	11,976.1134	0.4199		11,986.6104

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9468	12.7485	55.4062	0.0913		0.3334	0.3334		0.3334	0.3334	0.0000	8,502.7480	8,502.7480	1.2329		8,533.5695
Total	1.9468	12.7485	55.4062	0.0913		0.3334	0.3334		0.3334	0.3334	0.0000	8,502.7480	8,502.7480	1.2329		8,533.5695

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3323	10.9989	3.4051	0.0387	0.6686	0.0127	0.6813	0.2068	0.0121	0.2189		4,143.3466	4,143.3466	0.2176		4,148.7854
Worker	2.7902	1.7819	25.3238	0.0786	4.8917	0.0629	4.9546	1.3641	0.0579	1.4220		7,832.7667	7,832.7667	0.2023		7,837.8250
Total	3.1225	12.7808	28.7289	0.1173	5.5603	0.0756	5.6359	1.5709	0.0701	1.6409		11,976.1134	11,976.1134	0.4199		11,986.6104

3.7 Architectural Coating (Towers) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.3180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0222	6.9493	9.6593	0.0159		0.3777	0.3777		0.3777	0.3777		1,501.0563	1,501.0563	0.0898		1,503.3014
Total	62.3402	6.9493	9.6593	0.0159		0.3777	0.3777		0.3777	0.3777		1,501.0563	1,501.0563	0.0898		1,503.3014

Unmitigated Construction Off-Site

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

Worker	0.5581	0.3564	5.0648	0.0157	1.6543	0.0126	1.6669	0.4387	0.0116	0.4503		1,566.5534	1,566.5534	0.0405		1,567.5650
Total	0.5581	0.3564	5.0648	0.0157	1.6543	0.0126	1.6669	0.4387	0.0116	0.4503		1,566.5534	1,566.5534	0.0405		1,567.5650

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.3180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1585	0.6867	9.7729	0.0159		0.0211	0.0211		0.0211	0.0211	0.0000	1,501.0563	1,501.0563	0.0898		1,503.3014
Total	61.4765	0.6867	9.7729	0.0159		0.0211	0.0211		0.0211	0.0211	0.0000	1,501.0563	1,501.0563	0.0898		1,503.3014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5581	0.3564	5.0648	0.0157	0.9783	0.0126	0.9909	0.2728	0.0116	0.2844		1,566.5534	1,566.5534	0.0405		1,567.5650
Total	0.5581	0.3564	5.0648	0.0157	0.9783	0.0126	0.9909	0.2728	0.0116	0.2844		1,566.5534	1,566.5534	0.0405		1,567.5650

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	lb/day										lb/day					
Mitigated	5.3016	22.5003	71.9773	0.2831	24.3744	0.2080	24.5824	6.5223	0.1933	6.7156		28,850.9905	28,850.9905	1.3342		28,884.3457
Unmitigated	5.3016	22.5003	71.9773	0.2831	24.3744	0.2080	24.5824	6.5223	0.1933	6.7156		28,850.9905	28,850.9905	1.3342		28,884.3457

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,283.20	3,283.20	2774.00	10,963,982	10,963,982
Strip Mall	131.98	131.98	131.98	251,106	251,106
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,415.18	3,415.18	2,905.98	11,215,089	11,215,089

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Apartments High Rise	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140
NaturalGas Unmitigated	0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	19191.4	0.2070	1.7686	0.7526	0.0113		0.1430	0.1430		0.1430	0.1430		2,257.8161	2,257.8161	0.0433	0.0414	2,271.2332
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	42.0873	4.5000e-004	4.1300e-003	3.4700e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.9515	4.9515	9.0000e-005	9.0000e-005	4.9809
Total		0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	19.1914	0.2070	1.7686	0.7526	0.0113		0.1430	0.1430		0.1430	0.1430		2,257.8161	2,257.8161	0.0433	0.0414	2,271.2332
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0420873	4.5000e-004	4.1300e-003	3.4700e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.9515	4.9515	9.0000e-005	9.0000e-005	4.9809
Total		0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140

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	lb/day										lb/day					
Mitigated	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738
Unmitigated	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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SubCategory	lb/day										lb/day					
Architectural Coating	1.8311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.8221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8952	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478		113.1493	113.1493	0.1090		115.8738
Total	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.8221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8952	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478		113.1493	113.1493	0.1090		115.8738
Total	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

3600 Wilshire Boulevard, Construction (All Phases) - Los Angeles-South Coast County, Annual

3600 Wilshire Boulevard, Construction (All Phases)**Los Angeles-South Coast County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,131.00	Space	0.00	452,400.00	0
Strip Mall	9.37	1000sqft	0.22	9,367.00	0
Apartments High Rise	760.00	Dwelling Unit	4.00	1,034,163.00	2174

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2024
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 - Developer information

Land Use - Developer information

Construction Phase - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Trips and VMT - Developer information

Demolition - Developer information

Grading - Developer information

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Vehicle Trips - Traffic study trip generation rates

Woodstoves - Developer information

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	47
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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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
tblConstructionPhase	NumDays	18.00	109.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	8.00	42.00
tblConstructionPhase	NumDays	230.00	77.00
tblConstructionPhase	NumDays	18.00	108.00
tblConstructionPhase	NumDays	230.00	391.00
tblFireplaces	NumberGas	646.00	0.00
tblFireplaces	NumberNoFireplace	76.00	760.00
tblFireplaces	NumberWood	38.00	0.00
tblGrading	AcresOfGrading	21.00	4.00
tblGrading	MaterialExported	0.00	125,400.00
tblGrading	MaterialImported	0.00	3,500.00
tblLandUse	LandUseSquareFeet	760,000.00	1,034,163.00
tblLandUse	LotAcreage	10.18	0.00
tblLandUse	LotAcreage	12.26	4.00
tblOffRoadEquipment	LoadFactor	0.31	0.31

tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
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tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
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tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
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tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripNumber	15,675.00	12,540.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	4.98	4.32
tblVehicleTrips	ST_TR	42.04	14.09
tblVehicleTrips	SU_TR	20.43	14.09
tblVehicleTrips	WD_TR	4.20	4.32
tblVehicleTrips	WD_TR	44.32	14.09
tblWoodstoves	NumberCatalytic	38.00	0.00
tblWoodstoves	NumberNoncatalytic	38.00	0.00

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	0.0614	0.7182	0.4516	1.3800e-003	0.1225	0.0245	0.1470	0.0207	0.0229	0.0436	0.0000	125.6793	125.6793	0.0242	0.0000	126.2842
2022	4.3607	8.2786	8.9846	0.0275	1.3481	0.2484	1.5965	0.3909	0.2395	0.6304	0.0000	2,504.8380	2,504.8380	0.2165	0.0000	2,510.2502
2023	4.5378	7.7658	11.1565	0.0283	1.2711	0.2919	1.5630	0.3406	0.2841	0.6247	0.0000	2,518.5009	2,518.5009	0.2008	0.0000	2,523.5217
Maximum	4.5378	8.2786	11.1565	0.0283	1.3481	0.2919	1.5965	0.3909	0.2841	0.6304	0.0000	2,518.5009	2,518.5009	0.2165	0.0000	2,523.5217

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	0.0168	0.2011	0.5153	1.3800e-003	0.0498	1.8800e-003	0.0517	8.9700e-003	1.8600e-003	0.0108	0.0000	125.6792	125.6792	0.0242	0.0000	126.2841
2022	3.9740	4.6542	9.3376	0.0275	0.7722	0.0477	0.8199	0.2286	0.0468	0.2754	0.0000	2,504.8371	2,504.8371	0.2165	0.0000	2,510.2493
2023	4.0433	3.4259	11.5397	0.0283	0.7629	0.0551	0.8180	0.2158	0.0543	0.2701	0.0000	2,518.4996	2,518.4996	0.2008	0.0000	2,523.5204
Maximum	4.0433	4.6542	11.5397	0.0283	0.7722	0.0551	0.8199	0.2286	0.0543	0.2754	0.0000	2,518.4996	2,518.4996	0.2165	0.0000	2,523.5204

	ROG	NOx	CO	SO2	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	10.33	50.60	-3.88	0.00	42.19	81.48	48.90	39.71	81.18	57.16	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-1-2021	2-28-2022	3.5109	2.3246
2	3-1-2022	5-31-2022	3.9208	3.2158

3	6-1-2022	8-31-2022	2.7596	1.7103
4	9-1-2022	11-30-2022	2.3660	1.1439
5	12-1-2022	2-28-2023	2.1836	1.0467
6	3-1-2023	5-31-2023	2.1345	1.0108
7	6-1-2023	8-31-2023	2.9064	1.7037
8	9-1-2023	9-30-2023	1.4465	1.0037
		Highest	3.9208	3.2158

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.3711	0.0904	7.8489	4.1000e-004		0.0435	0.0435		0.0435	0.0435	0.0000	12.8309	12.8309	0.0124	0.0000	13.1399
Energy	0.0379	0.3235	0.1380	2.0600e-003		0.0262	0.0262		0.0262	0.0262	0.0000	3,597.8628	3,597.8628	0.0833	0.0226	3,606.6857
Mobile	0.8938	4.1731	12.3097	0.0487	4.2562	0.0371	4.2933	1.1408	0.0344	1.1752	0.0000	4,500.3189	4,500.3189	0.2140	0.0000	4,505.6685
Waste						0.0000	0.0000		0.0000	0.0000	72.9631	0.0000	72.9631	4.3120	0.0000	180.7629
Water						0.0000	0.0000		0.0000	0.0000	15.9297	559.9407	575.8704	1.6494	0.0414	629.4321
Total	5.3028	4.5870	20.2965	0.0511	4.2562	0.1067	4.3629	1.1408	0.1041	1.2448	88.8927	8,670.9533	8,759.8461	6.2710	0.0640	8,935.6891

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	4.3711	0.0904	7.8489	4.1000e-004		0.0435	0.0435		0.0435	0.0435	0.0000	12.8309	12.8309	0.0124	0.0000	13.1399
Energy	0.0379	0.3235	0.1380	2.0600e-003		0.0262	0.0262		0.0262	0.0262	0.0000	3,597.8628	3,597.8628	0.0833	0.0226	3,606.6857
Mobile	0.8938	4.1731	12.3097	0.0487	4.2562	0.0371	4.2933	1.1408	0.0344	1.1752	0.0000	4,500.3189	4,500.3189	0.2140	0.0000	4,505.6685
Waste						0.0000	0.0000		0.0000	0.0000	72.9631	0.0000	72.9631	4.3120	0.0000	180.7629
Water						0.0000	0.0000		0.0000	0.0000	15.9297	559.9407	575.8704	1.6494	0.0414	629.4321
Total	5.3028	4.5870	20.2965	0.0511	4.2562	0.1067	4.3629	1.1408	0.1041	1.2448	88.8927	8,670.9533	8,759.8461	6.2710	0.0640	8,935.6891

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2021	1/15/2022	5	33	
2	Grading	Grading	1/15/2022	3/15/2022	5	42	
3	Garage Construction	Building Construction	3/16/2022	6/30/2022	5	77	
4	Architectural Coating (Garage)	Architectural Coating	2/1/2022	6/30/2022	5	108	
5	Tower Construction	Building Construction	7/1/2022	12/31/2023	5	391	
6	Architectural Coating (Towers)	Architectural Coating	8/1/2023	12/31/2023	5	109	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 2,094,180; Residential Outdoor: 698,060; Non-Residential Indoor: 14,051; Non-Residential Outdoor: 4,684; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Demolition	Bore/Drill Rigs	1	8.00	221	0.50
Demolition	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Dumpers/Tenders	3	8.00	16	0.38
Demolition	Excavators	3	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Scrapers	1	8.00	367	0.48
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Cement and Mortar Mixers	1	8.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Welders	1	8.00	46	0.45
Garage Construction	Aerial Lifts	1	8.00	63	0.31
Garage Construction	Air Compressors	2	8.00	78	0.48
Garage Construction	Cement and Mortar Mixers	2	8.00	9	0.56
Garage Construction	Cranes	1	7.00	231	0.29
Garage Construction	Forklifts	2	8.00	89	0.20
Garage Construction	Generator Sets	1	8.00	84	0.74
Garage Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Garage Construction	Welders	1	8.00	46	0.45
Architectural Coating (Garage)	Air Compressors	2	6.00	78	0.48
Tower Construction	Cranes	2	8.00	231	0.29
Tower Construction	Forklifts	4	7.00	89	0.20
Tower Construction	Aerial Lifts	4	8.00	63	0.31

Tower Construction	Air Compressors	4	6.00	78	0.48
Tower Construction	Cement and Mortar Mixers	4	8.00	9	0.56
Tower Construction	Concrete/Industrial Saws	4	8.00	81	0.73
Tower Construction	Welders	4	8.00	46	0.45
Tower Construction	Generator Sets	2	8.00	84	0.74
Tower Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Architectural Coating (Towers)	Air Compressors	4	8.00	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	14	35.00	0.00	1,384.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	12,540.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Garage Construction	13	740.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Garage)	2	148.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Tower Construction	30	740.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Towers)	4	148.00	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
- Replace Ground Cover
- 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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.1044	0.0000	0.1044	0.0158	0.0000	0.0158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0548	0.5610	0.3991	8.9000e-004		0.0240	0.0240		0.0224	0.0224	0.0000	76.9247	76.9247	0.0211	0.0000	77.4515
Total	0.0548	0.5610	0.3991	8.9000e-004	0.1044	0.0240	0.1283	0.0158	0.0224	0.0382	0.0000	76.9247	76.9247	0.0211	0.0000	77.4515

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	4.8800e-003	0.1558	0.0373	4.5000e-004	0.0138	4.9000e-004	0.0142	3.6800e-003	4.7000e-004	4.1500e-003	0.0000	44.7742	44.7742	3.0100e-003	0.0000	44.8494
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	1.7300e-003	1.3500e-003	0.0152	4.0000e-005	4.4100e-003	4.0000e-005	4.4500e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.9804	3.9804	1.2000e-004	0.0000	3.9833
Total	6.6100e-003	0.1572	0.0525	4.9000e-004	0.0182	5.3000e-004	0.0187	4.8500e-003	5.0000e-004	5.3500e-003	0.0000	48.7545	48.7545	3.1300e-003	0.0000	48.8327

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					0.0387	0.0000	0.0387	5.8500e-003	0.0000	5.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.0440	0.4627	8.9000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	76.9247	76.9247	0.0211	0.0000	77.4514

Total	0.0101	0.0440	0.4627	8.9000e-004	0.0387	1.3500e-003	0.0400	5.8500e-003	1.3500e-003	7.2000e-003	0.0000	76.9247	76.9247	0.0211	0.0000	77.4514
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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	4.8800e-003	0.1558	0.0373	4.5000e-004	8.4900e-003	4.9000e-004	8.9900e-003	2.3900e-003	4.7000e-004	2.8600e-003	0.0000	44.7742	44.7742	3.0100e-003	0.0000	44.8494
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	1.7300e-003	1.3500e-003	0.0152	4.0000e-005	2.6100e-003	4.0000e-005	2.6500e-003	7.3000e-004	3.0000e-005	7.6000e-004	0.0000	3.9804	3.9804	1.2000e-004	0.0000	3.9833
Total	6.6100e-003	0.1572	0.0525	4.9000e-004	0.0111	5.3000e-004	0.0116	3.1200e-003	5.0000e-004	3.6200e-003	0.0000	48.7545	48.7545	3.1300e-003	0.0000	48.8327

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					0.0454	0.0000	0.0454	6.8700e-003	0.0000	6.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.2049	0.1670	3.9000e-004		8.6600e-003	8.6600e-003		8.1200e-003	8.1200e-003	0.0000	33.4595	33.4595	9.1500e-003	0.0000	33.6881
Total	0.0209	0.2049	0.1670	3.9000e-004	0.0454	8.6600e-003	0.0540	6.8700e-003	8.1200e-003	0.0150	0.0000	33.4595	33.4595	9.1500e-003	0.0000	33.6881

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0200e-003	0.0627	0.0161	2.0000e-004	0.0123	1.9000e-004	0.0125	3.1500e-003	1.8000e-004	3.3300e-003	0.0000	19.2337	19.2337	1.2900e-003	0.0000	19.2660
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.3000e-004	6.1000e-003	2.0000e-005	1.9200e-003	2.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6698	1.6698	5.0000e-005	0.0000	1.6709
Total	2.7300e-003	0.0632	0.0222	2.2000e-004	0.0142	2.1000e-004	0.0144	3.6600e-003	1.9000e-004	3.8500e-003	0.0000	20.9035	20.9035	1.3400e-003	0.0000	20.9369

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					0.0168	0.0000	0.0168	2.5500e-003	0.0000	2.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4100e-003	0.0191	0.2012	3.9000e-004		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	33.4594	33.4594	9.1500e-003	0.0000	33.6881
Total	4.4100e-003	0.0191	0.2012	3.9000e-004	0.0168	5.9000e-004	0.0174	2.5500e-003	5.9000e-004	3.1400e-003	0.0000	33.4594	33.4594	9.1500e-003	0.0000	33.6881

Mitigated Construction Off-Site

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

Hauling	2.0200e-003	0.0627	0.0161	2.0000e-004	7.0400e-003	1.9000e-004	7.2300e-003	1.8600e-003	1.8000e-004	2.0400e-003	0.0000	19.2337	19.2337	1.2900e-003	0.0000	19.2660
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.3000e-004	6.1000e-003	2.0000e-005	1.1400e-003	2.0000e-005	1.1500e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.6698	1.6698	5.0000e-005	0.0000	1.6709
Total	2.7300e-003	0.0632	0.0222	2.2000e-004	8.1800e-003	2.1000e-004	8.3800e-003	2.1800e-003	1.9000e-004	2.3700e-003	0.0000	20.9035	20.9035	1.3400e-003	0.0000	20.9369

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					0.1359	0.0000	0.1359	0.0709	0.0000	0.0709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0616	0.5876	0.4973	1.0500e-003		0.0266	0.0266		0.0249	0.0249	0.0000	91.0628	91.0628	0.0254	0.0000	91.6978
Total	0.0616	0.5876	0.4973	1.0500e-003	0.1359	0.0266	0.1625	0.0709	0.0249	0.0957	0.0000	91.0628	91.0628	0.0254	0.0000	91.6978

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	0.0523	1.6636	0.4162	5.0000e-003	0.1132	4.7300e-003	0.1179	0.0311	4.5300e-003	0.0356	0.0000	492.8394	492.8394	0.0339	0.0000	493.6857
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	2.1200e-003	1.5900e-003	0.0183	6.0000e-005	5.7500e-003	5.0000e-005	5.8000e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.0093	5.0093	1.4000e-004	0.0000	5.0128
Total	0.0544	1.6652	0.4345	5.0600e-003	0.1189	4.7800e-003	0.1237	0.0326	4.5700e-003	0.0372	0.0000	497.8488	497.8488	0.0340	0.0000	498.6985

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					0.0503	0.0000	0.0503	0.0263	0.0000	0.0263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1089	0.6037	1.0500e-003		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	91.0627	91.0627	0.0254	0.0000	91.6977
Total	0.0183	0.1089	0.6037	1.0500e-003	0.0503	2.9100e-003	0.0533	0.0263	2.9100e-003	0.0292	0.0000	91.0627	91.0627	0.0254	0.0000	91.6977

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	0.0523	1.6636	0.4162	5.0000e-003	0.0732	4.7300e-003	0.0779	0.0213	4.5300e-003	0.0258	0.0000	492.8394	492.8394	0.0339	0.0000	493.6857
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	2.1200e-003	1.5900e-003	0.0183	6.0000e-005	3.4100e-003	5.0000e-005	3.4600e-003	9.5000e-004	4.0000e-005	1.0000e-003	0.0000	5.0093	5.0093	1.4000e-004	0.0000	5.0128
Total	0.0544	1.6652	0.4345	5.0600e-003	0.0766	4.7800e-003	0.0814	0.0222	4.5700e-003	0.0268	0.0000	497.8488	497.8488	0.0340	0.0000	498.6985

3.4 Garage 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	0.0881	0.7538	0.8365	1.4000e-003		0.0383	0.0383		0.0366	0.0366	0.0000	119.2608	119.2608	0.0235	0.0000	119.8494
Total	0.0881	0.7538	0.8365	1.4000e-003		0.0383	0.0383		0.0366	0.0366	0.0000	119.2608	119.2608	0.0235	0.0000	119.8494

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	0.5667	0.1530	1.5200e-003	0.0381	1.0600e-003	0.0391	0.0110	1.0200e-003	0.0120	0.0000	147.6862	147.6862	8.8200e-003	0.0000	147.9067
Worker	0.1150	0.0862	0.9927	3.0100e-003	0.3122	2.4900e-003	0.3147	0.0829	2.3000e-003	0.0852	0.0000	271.8387	271.8387	7.4900e-003	0.0000	272.0259
Total	0.1326	0.6529	1.1457	4.5300e-003	0.3503	3.5500e-003	0.3538	0.0939	3.3200e-003	0.0972	0.0000	419.5249	419.5249	0.0163	0.0000	419.9326

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	0.0255	0.1498	0.8710	1.4000e-003		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	119.2606	119.2606	0.0235	0.0000	119.8492

Total	0.0255	0.1498	0.8710	1.4000e-003		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	119.2606	119.2606	0.0235	0.0000	119.8492
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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	0.5667	0.1530	1.5200e-003	0.0254	1.0600e-003	0.0265	7.8800e-003	1.0200e-003	8.9000e-003	0.0000	147.6862	147.6862	8.8200e-003	0.0000	147.9067
Worker	0.1150	0.0862	0.9927	3.0100e-003	0.1850	2.4900e-003	0.1875	0.0517	2.3000e-003	0.0540	0.0000	271.8387	271.8387	7.4900e-003	0.0000	272.0259
Total	0.1326	0.6529	1.1457	4.5300e-003	0.2104	3.5500e-003	0.2140	0.0596	3.3200e-003	0.0629	0.0000	419.5249	419.5249	0.0163	0.0000	419.9326

3.5 Architectural Coating (Garage) - 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					
Archit. Coating	3.3418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0221	0.1521	0.1959	3.2000e-004		8.8300e-003	8.8300e-003		8.8300e-003	8.8300e-003	0.0000	27.5751	27.5751	1.8000e-003	0.0000	27.6200
Total	3.3639	0.1521	0.1959	3.2000e-004		8.8300e-003	8.8300e-003		8.8300e-003	8.8300e-003	0.0000	27.5751	27.5751	1.8000e-003	0.0000	27.6200

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	0.0323	0.0242	0.2785	8.4000e-004	0.0876	7.0000e-004	0.0883	0.0233	6.4000e-004	0.0239	0.0000	76.2561	76.2561	2.1000e-003	0.0000	76.3086
Total	0.0323	0.0242	0.2785	8.4000e-004	0.0876	7.0000e-004	0.0883	0.0233	6.4000e-004	0.0239	0.0000	76.2561	76.2561	2.1000e-003	0.0000	76.3086

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	3.3418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2100e-003	0.0139	0.1979	3.2000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	27.5751	27.5751	1.8000e-003	0.0000	27.6200
Total	3.3450	0.0139	0.1979	3.2000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	27.5751	27.5751	1.8000e-003	0.0000	27.6200

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	0.0323	0.0242	0.2785	8.4000e-004	0.0519	7.0000e-004	0.0526	0.0145	6.4000e-004	0.0152	0.0000	76.2561	76.2561	2.1000e-003	0.0000	76.3086
Total	0.0323	0.0242	0.2785	8.4000e-004	0.0519	7.0000e-004	0.0526	0.0145	6.4000e-004	0.0152	0.0000	76.2561	76.2561	2.1000e-003	0.0000	76.3086

3.6 Tower 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	0.3787	3.0638	3.4580	5.9800e-003		0.1507	0.1507		0.1467	0.1467	0.0000	505.2095	505.2095	0.0751	0.0000	507.0876
Total	0.3787	3.0638	3.4580	5.9800e-003		0.1507	0.1507		0.1467	0.1467	0.0000	505.2095	505.2095	0.0751	0.0000	507.0876

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	0.0300	0.9642	0.2603	2.5900e-003	0.0648	1.8100e-003	0.0666	0.0187	1.7300e-003	0.0204	0.0000	251.2583	251.2583	0.0150	0.0000	251.6335
Worker	0.1956	0.1467	1.6888	5.1200e-003	0.5311	4.2400e-003	0.5354	0.1411	3.9100e-003	0.1450	0.0000	462.4788	462.4788	0.0127	0.0000	462.7972
Total	0.2255	1.1109	1.9492	7.7100e-003	0.5959	6.0500e-003	0.6020	0.1598	5.6400e-003	0.1654	0.0000	713.7372	713.7372	0.0278	0.0000	714.4308

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	0.1334	0.8461	3.6338	5.9800e-003		0.0241	0.0241		0.0241	0.0241	0.0000	505.2089	505.2089	0.0751	0.0000	507.0870
Total	0.1334	0.8461	3.6338	5.9800e-003		0.0241	0.0241		0.0241	0.0241	0.0000	505.2089	505.2089	0.0751	0.0000	507.0870

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	0.0300	0.9642	0.2603	2.5900e-003	0.0432	1.8100e-003	0.0450	0.0134	1.7300e-003	0.0151	0.0000	251.2583	251.2583	0.0150	0.0000	251.6335
Worker	0.1956	0.1467	1.6888	5.1200e-003	0.3148	4.2400e-003	0.3190	0.0880	3.9100e-003	0.0919	0.0000	462.4788	462.4788	0.0127	0.0000	462.7972
Total	0.2255	1.1109	1.9492	7.7100e-003	0.3580	6.0500e-003	0.3641	0.1014	5.6400e-003	0.1070	0.0000	713.7372	713.7372	0.0278	0.0000	714.4308

3.6 Tower 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	0.7006	5.6558	6.8257	0.0119		0.2608	0.2608		0.2537	0.2537	0.0000	1,002.7632	1,002.7632	0.1454	0.0000	1,006.3981
Total	0.7006	5.6558	6.8257	0.0119		0.2608	0.2608		0.2537	0.2537	0.0000	1,002.7632	1,002.7632	0.1454	0.0000	1,006.3981

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	0.0442	1.4458	0.4636	4.9700e-003	0.1286	1.6900e-003	0.1303	0.0371	1.6100e-003	0.0387	0.0000	483.0689	483.0689	0.0263	0.0000	483.7269
Worker	0.3650	0.2633	3.0823	9.7800e-003	1.0542	8.1800e-003	1.0623	0.2800	7.5300e-003	0.2875	0.0000	884.3084	884.3084	0.0228	0.0000	884.8775
Total	0.4091	1.7091	3.5459	0.0148	1.1827	9.8700e-003	1.1926	0.3171	9.1400e-003	0.3262	0.0000	1,367.3772	1,367.3772	0.0491	0.0000	1,368.6044

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	0.2531	1.6573	7.2028	0.0119		0.0433	0.0433		0.0433	0.0433	0.0000	1,002.7620	1,002.7620	0.1454	0.0000	1,006.3969

Total	0.2531	1.6573	7.2028	0.0119		0.0433	0.0433		0.0433	0.0433	0.0000	1,002.7620	1,002.7620	0.1454	0.0000	1,006.3969
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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	0.0442	1.4458	0.4636	4.9700e-003	0.0858	1.6900e-003	0.0875	0.0266	1.6100e-003	0.0282	0.0000	483.0689	483.0689	0.0263	0.0000	483.7269
Worker	0.3650	0.2633	3.0823	9.7800e-003	0.6247	8.1800e-003	0.6329	0.1746	7.5300e-003	0.1821	0.0000	884.3084	884.3084	0.0228	0.0000	884.8775
Total	0.4091	1.7091	3.5459	0.0148	0.7105	9.8700e-003	0.7204	0.2012	9.1400e-003	0.2103	0.0000	1,367.3772	1,367.3772	0.0491	0.0000	1,368.6044

3.7 Architectural Coating (Towers) - 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	3.3418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0557	0.3787	0.5264	8.6000e-004		0.0206	0.0206		0.0206	0.0206	0.0000	74.2146	74.2146	4.4400e-003	0.0000	74.3256
Total	3.3975	0.3787	0.5264	8.6000e-004		0.0206	0.0206		0.0206	0.0206	0.0000	74.2146	74.2146	4.4400e-003	0.0000	74.3256

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	0.0306	0.0221	0.2584	8.2000e-004	0.0884	6.9000e-004	0.0891	0.0235	6.3000e-004	0.0241	0.0000	74.1459	74.1459	1.9100e-003	0.0000	74.1936
Total	0.0306	0.0221	0.2584	8.2000e-004	0.0884	6.9000e-004	0.0891	0.0235	6.3000e-004	0.0241	0.0000	74.1459	74.1459	1.9100e-003	0.0000	74.1936

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	3.3418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6400e-003	0.0374	0.5326	8.6000e-004		1.1500e-003	1.1500e-003		1.1500e-003	1.1500e-003	0.0000	74.2145	74.2145	4.4400e-003	0.0000	74.3255
Total	3.3505	0.0374	0.5326	8.6000e-004		1.1500e-003	1.1500e-003		1.1500e-003	1.1500e-003	0.0000	74.2145	74.2145	4.4400e-003	0.0000	74.3255

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	0.0306	0.0221	0.2584	8.2000e-004	0.0524	6.9000e-004	0.0531	0.0146	6.3000e-004	0.0153	0.0000	74.1459	74.1459	1.9100e-003	0.0000	74.1936
Total	0.0306	0.0221	0.2584	8.2000e-004	0.0524	6.9000e-004	0.0531	0.0146	6.3000e-004	0.0153	0.0000	74.1459	74.1459	1.9100e-003	0.0000	74.1936

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	0.8938	4.1731	12.3097	0.0487	4.2562	0.0371	4.2933	1.1408	0.0344	1.1752	0.0000	4,500.3189	4,500.3189	0.2140	0.0000	4,505.6685
Unmitigated	0.8938	4.1731	12.3097	0.0487	4.2562	0.0371	4.2933	1.1408	0.0344	1.1752	0.0000	4,500.3189	4,500.3189	0.2140	0.0000	4,505.6685

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,283.20	3,283.20	2774.00	10,963,982	10,963,982
Strip Mall	131.98	131.98	131.98	251,106	251,106
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,415.18	3,415.18	2,905.98	11,215,089	11,215,089

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %
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Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Apartments High Rise	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,223.2363	3,223.2363	0.0761	0.0158	3,229.8329
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,223.2363	3,223.2363	0.0761	0.0158	3,229.8329
Natural Gas Mitigated	0.0379	0.3235	0.1380	2.0600e-003		0.0262	0.0262		0.0262	0.0262	0.0000	374.6265	374.6265	7.1800e-003	6.8700e-003	376.8528
Natural Gas Unmitigated	0.0379	0.3235	0.1380	2.0600e-003		0.0262	0.0262		0.0262	0.0262	0.0000	374.6265	374.6265	7.1800e-003	6.8700e-003	376.8528

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	7.00487e+06	0.0378	0.3228	0.1374	2.0600e-003		0.0261	0.0261		0.0261	0.0261	0.0000	373.8068	373.8068	7.1600e-003	6.8500e-003	376.0281
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	15361.9	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8198	0.8198	2.0000e-005	2.0000e-005	0.8246
Total		0.0379	0.3235	0.1380	2.0600e-003		0.0262	0.0262		0.0262	0.0262	0.0000	374.6265	374.6265	7.1800e-003	6.8700e-003	376.8528

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	7.00487e+06	0.0378	0.3228	0.1374	2.0600e-003		0.0261	0.0261		0.0261	0.0261	0.0000	373.8068	373.8068	7.1600e-003	6.8500e-003	376.0281
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	15361.9	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8198	0.8198	2.0000e-005	2.0000e-005	0.8246
Total		0.0379	0.3235	0.1380	2.0600e-003		0.0262	0.0262		0.0262	0.0262	0.0000	374.6265	374.6265	7.1800e-003	6.8700e-003	376.8528

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
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Land Use	kWh/yr	MT/yr			
Apartments High Rise	3.00966e+06	1,676.2653	0.0396	8.1900e-003	1,679.6959
Enclosed Parking with Elevator	2.65106e+06	1,476.5407	0.0349	7.2200e-003	1,479.5626
Strip Mall	126455	70.4303	1.6600e-003	3.4000e-004	70.5744
Total		3,223.2363	0.0761	0.0158	3,229.8329

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	3.00966e+06	1,676.2653	0.0396	8.1900e-003	1,679.6959
Enclosed Parking with Elevator	2.65106e+06	1,476.5407	0.0349	7.2200e-003	1,479.5626
Strip Mall	126455	70.4303	1.6600e-003	3.4000e-004	70.5744
Total		3,223.2363	0.0761	0.0158	3,229.8329

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
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Category	tons/yr									MT/yr						
Mitigated	4.3711	0.0904	7.8489	4.1000e-004		0.0435	0.0435		0.0435	0.0435	0.0000	12.8309	12.8309	0.0124	0.0000	13.1399
Unmitigated	4.3711	0.0904	7.8489	4.1000e-004		0.0435	0.0435		0.0435	0.0435	0.0000	12.8309	12.8309	0.0124	0.0000	13.1399

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.8000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2369	0.0904	7.8489	4.1000e-004		0.0435	0.0435		0.0435	0.0435	0.0000	12.8309	12.8309	0.0124	0.0000	13.1399
Total	4.3711	0.0904	7.8489	4.1000e-004		0.0435	0.0435		0.0435	0.0435	0.0000	12.8309	12.8309	0.0124	0.0000	13.1399

Mitigated

[illegible]

Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2369	0.0904	7.8489	4.1000e-004		0.0435	0.0435		0.0435	0.0435	0.0000	12.8309	12.8309	0.0124	0.0000	13.1399
Total	4.3711	0.0904	7.8489	4.1000e-004		0.0435	0.0435		0.0435	0.0435	0.0000	12.8309	12.8309	0.0124	0.0000	13.1399

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	575.8704	1.6494	0.0414	629.4321
Unmitigated	575.8704	1.6494	0.0414	629.4321

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	49.5171 / 31.2173	567.9845	1.6266	0.0408	620.8060
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.69406 / 0.425391	7.8859	0.0228	5.7000e-004	8.6261

Total		575.8704	1.6494	0.0414	629.4321
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Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	49.5171 / 31.2173	567.9845	1.6266	0.0408	620.8060
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.69406 / 0.425391	7.8859	0.0228	5.7000e-004	8.6261
Total		575.8704	1.6494	0.0414	629.4321

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	72.9631	4.3120	0.0000	180.7629
Unmitigated	72.9631	4.3120	0.0000	180.7629

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	349.6	70.9656	4.1940	0.0000	175.8144
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	9.84	1.9974	0.1180	0.0000	4.9486
Total		72.9631	4.3120	0.0000	180.7629

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	349.6	70.9656	4.1940	0.0000	175.8144
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	9.84	1.9974	0.1180	0.0000	4.9486
Total		72.9631	4.3120	0.0000	180.7629

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

3600 Wilshire Boulevard, Construction (All Phases) - Los Angeles-South Coast County, Winter

3600 Wilshire Boulevard, Construction (All Phases)**Los Angeles-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,131.00	Space	0.00	452,400.00	0
Strip Mall	9.37	1000sqft	0.22	9,367.00	0
Apartments High Rise	760.00	Dwelling Unit	4.00	1,034,163.00	2174

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2024
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 - Developer information

Land Use - Developer information

Construction Phase - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Trips and VMT - Developer information

Demolition - Developer information

Grading - Developer information

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Vehicle Trips - Traffic study trip generation rates

Woodstoves - Developer information

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	47
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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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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tblConstructionPhase	NumDays	18.00	109.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	8.00	42.00
tblConstructionPhase	NumDays	230.00	77.00
tblConstructionPhase	NumDays	18.00	108.00
tblConstructionPhase	NumDays	230.00	391.00
tblFireplaces	NumberGas	646.00	0.00
tblFireplaces	NumberNoFireplace	76.00	760.00
tblFireplaces	NumberWood	38.00	0.00
tblGrading	AcresOfGrading	21.00	4.00
tblGrading	MaterialExported	0.00	125,400.00
tblGrading	MaterialImported	0.00	3,500.00
tblLandUse	LandUseSquareFeet	760,000.00	1,034,163.00
tblLandUse	LotAcreage	10.18	0.00
tblLandUse	LotAcreage	12.26	4.00
tblOffRoadEquipment	LoadFactor	0.31	0.31

tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripNumber	15,675.00	12,540.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	4.98	4.32
tblVehicleTrips	ST_TR	42.04	14.09
tblVehicleTrips	SU_TR	20.43	14.09
tblVehicleTrips	WD_TR	4.20	4.32
tblVehicleTrips	WD_TR	44.32	14.09
tblWoodstoves	NumberCatalytic	38.00	0.00
tblWoodstoves	NumberNoncatalytic	38.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.3621	62.1924	39.3280	0.1200	10.6835	2.1298	12.8133	1.8029	1.9940	3.7969	0.0000	12,004.842 1	12,004.842 1	2.3239	0.0000	12,062.940 6
2022	69.0307	159.1574	82.8441	0.4078	24.2075	3.2707	27.4782	7.0706	3.0663	10.1369	0.0000	42,598.510 7	42,598.510 7	5.4655	0.0000	42,735.149 0
2023	71.8251	63.7704	93.5574	0.2336	10.9309	2.4723	13.4032	2.9218	2.4117	5.3335	0.0000	22,885.521 5	22,885.521 5	1.7806	0.0000	22,930.036 5
Maximum	71.8251	159.1574	93.5574	0.4078	24.2075	3.2707	27.4782	7.0706	3.0663	10.1369	0.0000	42,598.510 7	42,598.510 7	5.4655	0.0000	42,735.149 0

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.4779	17.2316	44.8595	0.1200	4.3438	0.1641	4.5079	0.7840	0.1620	0.9460	0.0000	12,004.842 1	12,004.842 1	2.3239	0.0000	12,062.940 6
2022	67.0540	99.1996	94.7455	0.4078	11.1251	0.5264	11.6515	3.2727	0.5146	3.7872	0.0000	42,598.510 7	42,598.510 7	5.4655	0.0000	42,735.149 0
2023	67.5193	26.7498	96.5716	0.2336	6.5387	0.4434	6.9820	1.8437	0.4368	2.2805	0.0000	22,885.521 5	22,885.521 5	1.7806	0.0000	22,930.036 5
Maximum	67.5193	99.1996	96.5716	0.4078	11.1251	0.5264	11.6515	3.2727	0.5146	3.7872	0.0000	42,598.510 7	42,598.510 7	5.4655	0.0000	42,735.149 0

	ROG	NOx	CO	SO2	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	6.95	49.78	-9.48	0.00	51.97	85.60	56.90	49.98	85.10	63.60	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738
Energy	0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140
Mobile	5.1349	23.0372	68.0829	0.2694	24.3744	0.2088	24.5832	6.5223	0.1941	6.7164		27,476.8908	27,476.8908	1.3294		27,510.1249
Total	29.8908	25.5331	131.6298	0.2840	24.3744	0.6999	25.0743	6.5223	0.6852	7.2075	0.0000	29,852.8077	29,852.8077	1.4817	0.0415	29,902.2127

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738
Energy	0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140
Mobile	5.1349	23.0372	68.0829	0.2694	24.3744	0.2088	24.5832	6.5223	0.1941	6.7164		27,476.8908	27,476.8908	1.3294		27,510.1249
Total	29.8908	25.5331	131.6298	0.2840	24.3744	0.6999	25.0743	6.5223	0.6852	7.2075	0.0000	29,852.8077	29,852.8077	1.4817	0.0415	29,902.2127

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2021	1/15/2022	5	33	
2	Grading	Grading	1/15/2022	3/15/2022	5	42	
3	Garage Construction	Building Construction	3/16/2022	6/30/2022	5	77	
4	Architectural Coating (Garage)	Architectural Coating	2/1/2022	6/30/2022	5	108	
5	Tower Construction	Building Construction	7/1/2022	12/31/2023	5	391	
6	Architectural Coating (Towers)	Architectural Coating	8/1/2023	12/31/2023	5	109	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 2,094,180; Residential Outdoor: 698,060; Non-Residential Indoor: 14,051; Non-Residential Outdoor: 4,684; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	221	0.50
Demolition	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Dumpers/Tenders	3	8.00	16	0.38
Demolition	Excavators	3	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Scrapers	1	8.00	367	0.48
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Cement and Mortar Mixers	1	8.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Welders	1	8.00	46	0.45
Garage Construction	Aerial Lifts	1	8.00	63	0.31
Garage Construction	Air Compressors	2	8.00	78	0.48
Garage Construction	Cement and Mortar Mixers	2	8.00	9	0.56
Garage Construction	Cranes	1	7.00	231	0.29
Garage Construction	Forklifts	2	8.00	89	0.20
Garage Construction	Generator Sets	1	8.00	84	0.74
Garage Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Garage Construction	Welders	1	8.00	46	0.45
Architectural Coating (Garage)	Air Compressors	2	6.00	78	0.48
Tower Construction	Cranes	2	8.00	231	0.29
Tower Construction	Forklifts	4	7.00	89	0.20
Tower Construction	Aerial Lifts	4	8.00	63	0.31
Tower Construction	Air Compressors	4	6.00	78	0.48
Tower Construction	Cement and Mortar Mixers	4	8.00	9	0.56
Tower Construction	Concrete/Industrial Saws	4	8.00	81	0.73
Tower Construction	Welders	4	8.00	46	0.45
Tower Construction	Generator Sets	2	8.00	84	0.74
Tower Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Architectural Coating (Towers)	Air Compressors	4	8.00	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	14	35.00	0.00	1,384.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	12,540.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Garage Construction	13	740.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Garage)	2	148.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Tower Construction	30	740.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Towers)	4	148.00	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
- Replace Ground Cover
- 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	lb/day										lb/day					
Fugitive Dust					9.0745	0.0000	9.0745	1.3740	0.0000	1.3740			0.0000			0.0000
Off-Road	4.7663	48.7833	34.7067	0.0770		2.0833	2.0833		1.9497	1.9497		7,373.4789	7,373.4789	2.0196		7,423.9691
Total	4.7663	48.7833	34.7067	0.0770	9.0745	2.0833	11.1578	1.3740	1.9497	3.3236		7,373.4789	7,373.4789	2.0196		7,423.9691

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4289	13.2949	3.3324	0.0392	1.2178	0.0433	1.2611	0.3252	0.0414	0.3666		4,256.0753	4,256.0753	0.2933		4,263.4076
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.1669	0.1142	1.2889	3.7700e-003	0.3912	3.1600e-003	0.3944	0.1038	2.9100e-003	0.1067		375.2879	375.2879	0.0110		375.5640
Total	0.5958	13.4091	4.6213	0.0430	1.6090	0.0465	1.6555	0.4289	0.0444	0.4733		4,631.3632	4,631.3632	0.3043		4,638.9715

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3621	0.0000	3.3621	0.5091	0.0000	0.5091			0.0000			0.0000
Off-Road	0.8821	3.8225	40.2382	0.0770		0.1176	0.1176		0.1176	0.1176	0.0000	7,373.4789	7,373.4789	2.0196		7,423.9690
Total	0.8821	3.8225	40.2382	0.0770	3.3621	0.1176	3.4797	0.5091	0.1176	0.6267	0.0000	7,373.4789	7,373.4789	2.0196		7,423.9690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4289	13.2949	3.3324	0.0392	0.7504	0.0433	0.7937	0.2104	0.0414	0.2519		4,256.0753	4,256.0753	0.2933		4,263.4076
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1669	0.1142	1.2889	3.7700e-003	0.2314	3.1600e-003	0.2345	0.0645	2.9100e-003	0.0674		375.2879	375.2879	0.0110		375.5640
Total	0.5958	13.4091	4.6213	0.0430	0.9818	0.0465	1.0282	0.2750	0.0444	0.3193		4,631.3632	4,631.3632	0.3043		4,638.9715

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	lb/day										lb/day					
Fugitive Dust					9.0745	0.0000	9.0745	1.3740	0.0000	1.3740			0.0000			0.0000
Off-Road	4.1886	40.9812	33.4076	0.0770		1.7324	1.7324		1.6232	1.6232		7,376.5457	7,376.5457	2.0164		7,426.9563
Total	4.1886	40.9812	33.4076	0.0770	9.0745	1.7324	10.8069	1.3740	1.6232	2.9971		7,376.5457	7,376.5457	2.0164		7,426.9563

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4084	12.3018	3.2953	0.0387	2.5106	0.0377	2.5483	0.6425	0.0360	0.6785		4,204.7471	4,204.7471	0.2893		4,211.9795
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1567	0.1031	1.1871	3.6300e-003	0.3912	3.0600e-003	0.3943	0.1038	2.8200e-003	0.1066		362.0993	362.0993	9.9700e-003		362.3486
Total	0.5651	12.4049	4.4824	0.0423	2.9018	0.0407	2.9426	0.7463	0.0389	0.7851		4,566.8464	4,566.8464	0.2993		4,574.3281

Mitigated Construction On-Site

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

Fugitive Dust					3.3621	0.0000	3.3621	0.5091	0.0000	0.5091			0.0000			0.0000
Off-Road	0.8821	3.8225	40.2382	0.0770		0.1176	0.1176		0.1176	0.1176	0.0000	7,376.5457	7,376.5457	2.0164		7,426.9563
Total	0.8821	3.8225	40.2382	0.0770	3.3621	0.1176	3.4797	0.5091	0.1176	0.6267	0.0000	7,376.5457	7,376.5457	2.0164		7,426.9563

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4084	12.3018	3.2953	0.0387	1.4356	0.0377	1.4733	0.3786	0.0360	0.4147		4,204.7471	4,204.7471	0.2893		4,211.9795
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1567	0.1031	1.1871	3.6300e-003	0.2314	3.0600e-003	0.2344	0.0645	2.8200e-003	0.0673		362.0993	362.0993	9.9700e-003		362.3486
Total	0.5651	12.4049	4.4824	0.0423	1.6670	0.0407	1.7077	0.4432	0.0389	0.4820		4,566.8464	4,566.8464	0.2993		4,574.3281

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	lb/day										lb/day					
Fugitive Dust					6.4702	0.0000	6.4702	3.3737	0.0000	3.3737			0.0000			0.0000
Off-Road	2.9323	27.9824	23.6790	0.0501		1.2682	1.2682		1.1850	1.1850		4,779.9797	4,779.9797	1.3332		4,813.3102
Total	2.9323	27.9824	23.6790	0.0501	6.4702	1.2682	7.7383	3.3737	1.1850	4.5587		4,779.9797	4,779.9797	1.3332		4,813.3102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5225	77.7153	20.4272	0.2358	5.4816	0.2272	5.7088	1.5026	0.2173	1.7199		25,616.4966	25,616.4966	1.8095		25,661.7339
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1120	0.0736	0.8479	2.6000e-003	0.2794	2.1900e-003	0.2816	0.0741	2.0100e-003	0.0761		258.6424	258.6424	7.1200e-003		258.8204
Total	2.6344	77.7890	21.2752	0.2384	5.7611	0.2294	5.9904	1.5767	0.2193	1.7961		25,875.1389	25,875.1389	1.8166		25,920.5544

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3972	0.0000	2.3972	1.2500	0.0000	1.2500			0.0000			0.0000
Off-Road	0.8693	5.1833	28.7498	0.0501		0.1387	0.1387		0.1387	0.1387	0.0000	4,779.9797	4,779.9797	1.3332		4,813.3102
Total	0.8693	5.1833	28.7498	0.0501	2.3972	0.1387	2.5359	1.2500	0.1387	1.3887	0.0000	4,779.9797	4,779.9797	1.3332		4,813.3102

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
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Category	lb/day										lb/day					
Hauling	2.5225	77.7153	20.4272	0.2358	3.5335	0.2272	3.7607	1.0244	0.2173	1.2418		25,616.4966	25,616.4966	1.8095		25,661.7339
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1120	0.0736	0.8479	2.6000e-003	0.1653	2.1900e-003	0.1675	0.0461	2.0100e-003	0.0481		258.6424	258.6424	7.1200e-003		258.8204
Total	2.6344	77.7890	21.2752	0.2384	3.6988	0.2294	3.9282	1.0705	0.2193	1.2899		25,875.1389	25,875.1389	1.8166		25,920.5544

3.4 Garage Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2887	19.5788	21.7273	0.0364		0.9948	0.9948		0.9518	0.9518		3,414.6100	3,414.6100	0.6741		3,431.4630
Total	2.2887	19.5788	21.7273	0.0364		0.9948	0.9948		0.9518	0.9518		3,414.6100	3,414.6100	0.6741		3,431.4630

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4703	14.4564	4.1726	0.0389	1.0052	0.0281	1.0333	0.2894	0.0269	0.3163		4,160.0334	4,160.0334	0.2615		4,166.5695
Worker	3.3140	2.1796	25.0991	0.0768	8.2715	0.0648	8.3362	2.1936	0.0596	2.2533		7,655.8140	7,655.8140	0.2108		7,661.0840

Total	3.7843	16.6361	29.2716	0.1157	9.2766	0.0929	9.3695	2.4830	0.0866	2.5696		11,815.847 4	11,815.847 4	0.4723		11,827.653 6
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6616	3.8910	22.6229	0.0364		0.1125	0.1125		0.1125	0.1125	0.0000	3,414.6100	3,414.6100	0.6741		3,431.4630
Total	0.6616	3.8910	22.6229	0.0364		0.1125	0.1125		0.1125	0.1125	0.0000	3,414.6100	3,414.6100	0.6741		3,431.4630

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4703	14.4564	4.1726	0.0389	0.6686	0.0281	0.6967	0.2068	0.0269	0.2337		4,160.0334	4,160.0334	0.2615		4,166.5695
Worker	3.3140	2.1796	25.0991	0.0768	4.8917	0.0648	4.9565	1.3641	0.0596	1.4237		7,655.8140	7,655.8140	0.2108		7,661.0840
Total	3.7843	16.6361	29.2716	0.1157	5.5603	0.0929	5.6532	1.5708	0.0866	1.6574		11,815.847 4	11,815.847 4	0.4723		11,827.653 6

3.5 Architectural Coating (Garage) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.8858					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123
Total	62.2949	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6628	0.4359	5.0198	0.0154	1.6543	0.0130	1.6672	0.4387	0.0119	0.4507		1,531.1628	1,531.1628	0.0422		1,532.2168
Total	0.6628	0.4359	5.0198	0.0154	1.6543	0.0130	1.6672	0.4387	0.0119	0.4507		1,531.1628	1,531.1628	0.0422		1,532.2168

Mitigated Construction On-Site

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

Archit. Coating	61.8858					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0367		563.8123
Total	61.9452	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0367		563.8123

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6628	0.4359	5.0198	0.0154	0.9783	0.0130	0.9913	0.2728	0.0119	0.2847		1,531.1628	1,531.1628	0.0422		1,532.2168
Total	0.6628	0.4359	5.0198	0.0154	0.9783	0.0130	0.9913	0.2728	0.0119	0.2847		1,531.1628	1,531.1628	0.0422		1,532.2168

3.6 Tower Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.7811	46.7751	52.7940	0.0913		2.3012	2.3012		2.2398	2.2398		8,502.2616	8,502.2616	1.2643		8,533.8693
Total	5.7811	46.7751	52.7940	0.0913		2.3012	2.3012		2.2398	2.2398		8,502.2616	8,502.2616	1.2643		8,533.8693

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4703	14.4564	4.1726	0.0389	1.0052	0.0281	1.0333	0.2894	0.0269	0.3163		4,160.0334	4,160.0334	0.2615		4,166.5695
Worker	3.3140	2.1796	25.0991	0.0768	8.2715	0.0648	8.3362	2.1936	0.0596	2.2533		7,655.8140	7,655.8140	0.2108		7,661.0840
Total	3.7843	16.6361	29.2716	0.1157	9.2766	0.0929	9.3695	2.4830	0.0866	2.5696		11,815.8474	11,815.8474	0.4723		11,827.6536

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0359	12.9179	55.4777	0.0913		0.3685	0.3685		0.3685	0.3685	0.0000	8,502.2616	8,502.2616	1.2643		8,533.8693
Total	2.0359	12.9179	55.4777	0.0913		0.3685	0.3685		0.3685	0.3685	0.0000	8,502.2616	8,502.2616	1.2643		8,533.8693

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
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4703	14.4564	4.1726	0.0389	0.6686	0.0281	0.6967	0.2068	0.0269	0.2337		4,160.0334	4,160.0334	0.2615		4,166.5695
Worker	3.3140	2.1796	25.0991	0.0768	4.8917	0.0648	4.9565	1.3641	0.0596	1.4237		7,655.8140	7,655.8140	0.2108		7,661.0840
Total	3.7843	16.6361	29.2716	0.1157	5.5603	0.0929	5.6532	1.5708	0.0866	1.6574		11,815.8474	11,815.8474	0.4723		11,827.6536

3.6 Tower Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.3888	43.5065	52.5055	0.0913		2.0057	2.0057		1.9517	1.9517		8,502.7480	8,502.7480	1.2329		8,533.5695
Total	5.3888	43.5065	52.5055	0.0913		2.0057	2.0057		1.9517	1.9517		8,502.7480	8,502.7480	1.2329		8,533.5695

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3494	10.9490	3.7077	0.0376	1.0052	0.0134	1.0185	0.2894	0.0128	0.3022		4,030.8386	4,030.8386	0.2302		4,036.5926
Worker	3.1222	1.9713	23.0708	0.0740	8.2715	0.0629	8.3344	2.1936	0.0579	2.2516		7,375.7322	7,375.7322	0.1898		7,380.4776

Total	3.4716	12.9203	26.7785	0.1116	9.2766	0.0763	9.3529	2.4830	0.0707	2.5537		11,406.5708	11,406.5708	0.4200		11,417.0701
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9468	12.7485	55.4062	0.0913		0.3334	0.3334		0.3334	0.3334	0.0000	8,502.7480	8,502.7480	1.2329		8,533.5695
Total	1.9468	12.7485	55.4062	0.0913		0.3334	0.3334		0.3334	0.3334	0.0000	8,502.7480	8,502.7480	1.2329		8,533.5695

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3494	10.9490	3.7077	0.0376	0.6686	0.0134	0.6820	0.2068	0.0128	0.2196		4,030.8386	4,030.8386	0.2302		4,036.5926
Worker	3.1222	1.9713	23.0708	0.0740	4.8917	0.0629	4.9546	1.3641	0.0579	1.4220		7,375.7322	7,375.7322	0.1898		7,380.4776
Total	3.4716	12.9203	26.7785	0.1116	5.5603	0.0763	5.6366	1.5709	0.0707	1.6416		11,406.5708	11,406.5708	0.4200		11,417.0701

3.7 Architectural Coating (Towers) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.3180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0222	6.9493	9.6593	0.0159		0.3777	0.3777		0.3777	0.3777		1,501.0563	1,501.0563	0.0898		1,503.3014
Total	62.3402	6.9493	9.6593	0.0159		0.3777	0.3777		0.3777	0.3777		1,501.0563	1,501.0563	0.0898		1,503.3014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6244	0.3943	4.6142	0.0148	1.6543	0.0126	1.6669	0.4387	0.0116	0.4503		1,475.1465	1,475.1465	0.0380		1,476.0955
Total	0.6244	0.3943	4.6142	0.0148	1.6543	0.0126	1.6669	0.4387	0.0116	0.4503		1,475.1465	1,475.1465	0.0380		1,476.0955

Mitigated Construction On-Site

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

Archit. Coating	61.3180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1585	0.6867	9.7729	0.0159		0.0211	0.0211		0.0211	0.0211	0.0000	1,501.0563	1,501.0563	0.0898		1,503.3014
Total	61.4765	0.6867	9.7729	0.0159		0.0211	0.0211		0.0211	0.0211	0.0000	1,501.0563	1,501.0563	0.0898		1,503.3014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6244	0.3943	4.6142	0.0148	0.9783	0.0126	0.9909	0.2728	0.0116	0.2844		1,475.1465	1,475.1465	0.0380		1,476.0955
Total	0.6244	0.3943	4.6142	0.0148	0.9783	0.0126	0.9909	0.2728	0.0116	0.2844		1,475.1465	1,475.1465	0.0380		1,476.0955

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	lb/day										lb/day					
Mitigated	5.1349	23.0372	68.0829	0.2694	24.3744	0.2088	24.5832	6.5223	0.1941	6.7164		27,476.8908	27,476.8908	1.3294		27,510.1249

Unmitigated	5.1349	23.0372	68.0829	0.2694	24.3744	0.2088	24.5832	6.5223	0.1941	6.7164		27,476.890	27,476.890	1.3294		27,510.124
												8	8			9

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,283.20	3,283.20	2774.00	10,963,982	10,963,982
Strip Mall	131.98	131.98	131.98	251,106	251,106
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,415.18	3,415.18	2,905.98	11,215,089	11,215,089

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Apartments High Rise	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140
NaturalGas Unmitigated	0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	19191.4	0.2070	1.7686	0.7526	0.0113		0.1430	0.1430		0.1430	0.1430		2,257.8161	2,257.8161	0.0433	0.0414	2,271.2332
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	42.0873	4.5000e-004	4.1300e-003	3.4700e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.9515	4.9515	9.0000e-005	9.0000e-005	4.9809
Total		0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	19.1914	0.2070	1.7686	0.7526	0.0113		0.1430	0.1430		0.1430	0.1430		2,257.8161	2,257.8161	0.0433	0.0414	2,271.2332
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Strip Mall	0.0420873	4.5000e-004	4.1300e-003	3.4700e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.9515	4.9515	9.0000e-005	9.0000e-005	4.9809
Total		0.2074	1.7728	0.7561	0.0113		0.1433	0.1433		0.1433	0.1433		2,262.7675	2,262.7675	0.0434	0.0415	2,276.2140

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	lb/day										lb/day					
Mitigated	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738
Unmitigated	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.8221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8952	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478		113.1493	113.1493	0.1090		115.8738

Total	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738
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Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.8221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8952	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478		113.1493	113.1493	0.1090		115.8738
Total	24.5485	0.7232	62.7908	3.3200e-003		0.3478	0.3478		0.3478	0.3478	0.0000	113.1493	113.1493	0.1090	0.0000	115.8738

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
