

APPENDIX A
Air Quality/Greenhouse Gas/
Energy Data

CT Warehouse Carson - South Coast AQMD Air District, Annual

CT Warehouse Carson
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	145.84	1000sqft	3.35	145,840.00	0
Parking Lot	179.00	Space	1.61	71,600.00	0
City Park	0.52	Acre	0.52	22,651.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	513	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Per SCE 2018 Sustainability Report Page 10

Land Use -

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment (tilt-up warehouse)

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Trips and VMT -

Demolition - On-site structures to be demolished.

Grading - Cut & fill to be mostly balanced on-site with 80cy of export.

Architectural Coating -

Vehicle Trips - 723 ADT's

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 Building Energy Efficiency Standards

Water Mitigation -

Waste Mitigation - AB 341 2020 requirements

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	4296	7735
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	40.00
tblGrading	MaterialExported	0.00	80.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	4.96
tblVehicleTrips	SU_TR	16.74	0.00

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tblVehicleTrips	SU_TR	0.73	4.96
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	4.96

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-3-2020	11-2-2020	1.5153	1.5153
2	11-3-2020	2-2-2021	1.8878	1.8878
3	2-3-2021	5-2-2021	1.3675	1.3675
4	5-3-2021	8-2-2021	0.0435	0.0435
		Highest	1.8878	1.8878

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6016	4.0000e-005	4.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.6100e-003
Energy	8.1900e-003	0.0744	0.0625	4.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	527.6757	527.6757	0.0268	6.7100e-003	530.3451
Mobile	0.2461	1.4181	3.5714	0.0133	1.0931	0.0107	1.1038	0.2929	0.0100	0.3029	0.0000	1,225.8847	1,225.8847	0.0590	0.0000	1,227.3604
Waste						0.0000	0.0000		0.0000	0.0000	36.7170	0.0000	36.7170	2.1699	0.0000	90.9648
Water						0.0000	0.0000		0.0000	0.0000	10.6996	103.7864	114.4860	1.1048	0.0272	150.2007
Total	0.8559	1.4926	3.6381	0.0137	1.0931	0.0164	1.1095	0.2929	0.0157	0.3086	47.4166	1,857.3549	1,904.7714	3.3606	0.0339	1,998.8796

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6016	4.0000e-005	4.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.6100e-003
Energy	5.8200e-003	0.0529	0.0445	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	457.4496	457.4496	0.0237	5.7300e-003	459.7507
Mobile	0.2461	1.4181	3.5714	0.0133	1.0931	0.0107	1.1038	0.2929	0.0100	0.3029	0.0000	1,225.8847	1,225.8847	0.0590	0.0000	1,227.3604
Waste						0.0000	0.0000		0.0000	0.0000	9.1793	0.0000	9.1793	0.5425	0.0000	22.7412
Water						0.0000	0.0000		0.0000	0.0000	8.5596	83.3495	91.9091	0.8839	0.0217	120.4825
Total	0.8535	1.4711	3.6200	0.0136	1.0931	0.0148	1.1078	0.2929	0.0141	0.3070	17.7389	1,766.6919	1,784.4308	1.5091	0.0275	1,830.3433

	ROG	NOx	CO	SO2	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	0.28	1.44	0.50	0.95	0.00	10.00	0.15	0.00	10.45	0.53	62.59	4.88	6.32	55.09	18.93	8.43

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/3/2020	9/11/2020	5	30	
2	Building Construction	Building Construction	8/3/2020	5/7/2021	5	200	
3	Site Preparation	Site Preparation	9/15/2020	10/26/2020	5	30	
4	Grading	Grading	10/27/2020	11/30/2020	5	25	
5	Architectural Coating	Architectural Coating	1/15/2021	2/18/2021	5	25	
6	Paving	Paving	2/15/2021	4/9/2021	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 1.61

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 218,760; Non-Residential Outdoor: 72,920; Striped Parking Area: 4,296 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Crushing/Proc. Equipment	1	8.00	85	0.78
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40

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Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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	3	8.00	0.00	41.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	101.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.4500e-003	0.0000	4.4500e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2378	0.1452	2.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	22.1566	22.1566	7.1700e-003	0.0000	22.3357
Total	0.0230	0.2378	0.1452	2.5000e-004	4.4500e-003	0.0121	0.0165	6.7000e-004	0.0111	0.0118	0.0000	22.1566	22.1566	7.1700e-003	0.0000	22.3357

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3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.7500e-003	1.1500e-003	2.0000e-005	3.5000e-004	2.0000e-005	3.7000e-004	1.0000e-004	2.0000e-005	1.1000e-004	0.0000	1.5470	1.5470	1.1000e-004	0.0000	1.5497
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	4.1000e-004	4.5400e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1852	1.1852	3.0000e-005	0.0000	1.1861
Total	7.0000e-004	6.1600e-003	5.6900e-003	3.0000e-005	1.6700e-003	3.0000e-005	1.7000e-003	4.5000e-004	3.0000e-005	4.7000e-004	0.0000	2.7322	2.7322	1.4000e-004	0.0000	2.7357

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7400e-003	0.0000	1.7400e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2378	0.1452	2.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	22.1566	22.1566	7.1700e-003	0.0000	22.3357
Total	0.0230	0.2378	0.1452	2.5000e-004	1.7400e-003	0.0121	0.0138	2.6000e-004	0.0111	0.0114	0.0000	22.1566	22.1566	7.1700e-003	0.0000	22.3357

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3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.7500e-003	1.1500e-003	2.0000e-005	3.5000e-004	2.0000e-005	3.7000e-004	1.0000e-004	2.0000e-005	1.1000e-004	0.0000	1.5470	1.5470	1.1000e-004	0.0000	1.5497
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	4.1000e-004	4.5400e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1852	1.1852	3.0000e-005	0.0000	1.1861
Total	7.0000e-004	6.1600e-003	5.6900e-003	3.0000e-005	1.6700e-003	3.0000e-005	1.7000e-003	4.5000e-004	3.0000e-005	4.7000e-004	0.0000	2.7322	2.7322	1.4000e-004	0.0000	2.7357

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1069	1.0793	1.1091	1.8000e-003		0.0546	0.0546		0.0513	0.0513	0.0000	157.2724	157.2724	0.0427	0.0000	158.3391
Total	0.1069	1.0793	1.1091	1.8000e-003		0.0546	0.0546		0.0513	0.0513	0.0000	157.2724	157.2724	0.0427	0.0000	158.3391

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3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1200e-003	0.2268	0.0562	5.4000e-004	0.0134	1.1100e-003	0.0145	3.8700e-003	1.0600e-003	4.9300e-003	0.0000	52.2771	52.2771	3.4300e-003	0.0000	52.3629
Worker	0.0246	0.0188	0.2085	6.0000e-004	0.0604	4.7000e-004	0.0609	0.0160	4.3000e-004	0.0165	0.0000	54.3661	54.3661	1.5600e-003	0.0000	54.4051
Total	0.0317	0.2457	0.2647	1.1400e-003	0.0738	1.5800e-003	0.0754	0.0199	1.4900e-003	0.0214	0.0000	106.6432	106.6432	4.9900e-003	0.0000	106.7680

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	0.1069	1.0793	1.1091	1.8000e-003		0.0546	0.0546		0.0513	0.0513	0.0000	157.2723	157.2723	0.0427	0.0000	158.3389
Total	0.1069	1.0793	1.1091	1.8000e-003		0.0546	0.0546		0.0513	0.0513	0.0000	157.2723	157.2723	0.0427	0.0000	158.3389

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3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1200e-003	0.2268	0.0562	5.4000e-004	0.0134	1.1100e-003	0.0145	3.8700e-003	1.0600e-003	4.9300e-003	0.0000	52.2771	52.2771	3.4300e-003	0.0000	52.3629
Worker	0.0246	0.0188	0.2085	6.0000e-004	0.0604	4.7000e-004	0.0609	0.0160	4.3000e-004	0.0165	0.0000	54.3661	54.3661	1.5600e-003	0.0000	54.4051
Total	0.0317	0.2457	0.2647	1.1400e-003	0.0738	1.5800e-003	0.0754	0.0199	1.4900e-003	0.0214	0.0000	106.6432	106.6432	4.9900e-003	0.0000	106.7680

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0819	0.8211	0.9184	1.5000e-003		0.0395	0.0395		0.0371	0.0371	0.0000	131.3225	131.3225	0.0355	0.0000	132.2096
Total	0.0819	0.8211	0.9184	1.5000e-003		0.0395	0.0395		0.0371	0.0371	0.0000	131.3225	131.3225	0.0355	0.0000	132.2096

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3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0500e-003	0.1717	0.0426	4.5000e-004	0.0112	3.5000e-004	0.0115	3.2300e-003	3.3000e-004	3.5600e-003	0.0000	43.3238	43.3238	2.7400e-003	0.0000	43.3923
Worker	0.0192	0.0142	0.1601	4.9000e-004	0.0504	3.8000e-004	0.0508	0.0134	3.5000e-004	0.0137	0.0000	43.9174	43.9174	1.1800e-003	0.0000	43.9468
Total	0.0242	0.1859	0.2027	9.4000e-004	0.0616	7.3000e-004	0.0623	0.0166	6.8000e-004	0.0173	0.0000	87.2412	87.2412	3.9200e-003	0.0000	87.3391

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	0.0819	0.8211	0.9184	1.5000e-003		0.0395	0.0395		0.0371	0.0371	0.0000	131.3224	131.3224	0.0355	0.0000	132.2095
Total	0.0819	0.8211	0.9184	1.5000e-003		0.0395	0.0395		0.0371	0.0371	0.0000	131.3224	131.3224	0.0355	0.0000	132.2095

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3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0500e-003	0.1717	0.0426	4.5000e-004	0.0112	3.5000e-004	0.0115	3.2300e-003	3.3000e-004	3.5600e-003	0.0000	43.3238	43.3238	2.7400e-003	0.0000	43.3923
Worker	0.0192	0.0142	0.1601	4.9000e-004	0.0504	3.8000e-004	0.0508	0.0134	3.5000e-004	0.0137	0.0000	43.9174	43.9174	1.1800e-003	0.0000	43.9468
Total	0.0242	0.1859	0.2027	9.4000e-004	0.0616	7.3000e-004	0.0623	0.0166	6.8000e-004	0.0173	0.0000	87.2412	87.2412	3.9200e-003	0.0000	87.3391

3.4 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2016	0.0962	1.7000e-004		0.0103	0.0103		9.5000e-003	9.5000e-003	0.0000	15.3511	15.3511	4.9600e-003	0.0000	15.4752
Total	0.0193	0.2016	0.0962	1.7000e-004	0.0903	0.0103	0.1007	0.0497	9.5000e-003	0.0592	0.0000	15.3511	15.3511	4.9600e-003	0.0000	15.4752

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3.4 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.6000e-004	2.8400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7408	0.7408	2.0000e-005	0.0000	0.7413
Total	3.3000e-004	2.6000e-004	2.8400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7408	0.7408	2.0000e-005	0.0000	0.7413

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					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2016	0.0962	1.7000e-004		0.0103	0.0103		9.5000e-003	9.5000e-003	0.0000	15.3511	15.3511	4.9600e-003	0.0000	15.4752
Total	0.0193	0.2016	0.0962	1.7000e-004	0.0352	0.0103	0.0456	0.0194	9.5000e-003	0.0289	0.0000	15.3511	15.3511	4.9600e-003	0.0000	15.4752

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3.4 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.6000e-004	2.8400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7408	0.7408	2.0000e-005	0.0000	0.7413
Total	3.3000e-004	2.6000e-004	2.8400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7408	0.7408	2.0000e-005	0.0000	0.7413

3.5 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0597	0.0000	0.0597	6.4400e-003	0.0000	6.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0618	0.7322	0.4471	9.2000e-004		0.0289	0.0289		0.0266	0.0266	0.0000	80.6213	80.6213	0.0261	0.0000	81.2732
Total	0.0618	0.7322	0.4471	9.2000e-004	0.0597	0.0289	0.0886	6.4400e-003	0.0266	0.0330	0.0000	80.6213	80.6213	0.0261	0.0000	81.2732

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3.5 Grading - 2020

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	4.0000e-005	1.4000e-003	2.8000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3773	0.3773	3.0000e-005	0.0000	0.3780
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	6.4000e-004	7.1000e-003	2.0000e-005	2.0600e-003	2.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.8519	1.8519	5.0000e-005	0.0000	1.8532
Total	8.8000e-004	2.0400e-003	7.3800e-003	2.0000e-005	2.1500e-003	2.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.9000e-004	0.0000	2.2292	2.2292	8.0000e-005	0.0000	2.2312

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					0.0233	0.0000	0.0233	2.5100e-003	0.0000	2.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0618	0.7322	0.4471	9.2000e-004		0.0289	0.0289		0.0266	0.0266	0.0000	80.6212	80.6212	0.0261	0.0000	81.2731
Total	0.0618	0.7322	0.4471	9.2000e-004	0.0233	0.0289	0.0522	2.5100e-003	0.0266	0.0291	0.0000	80.6212	80.6212	0.0261	0.0000	81.2731

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3.5 Grading - 2020

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	4.0000e-005	1.4000e-003	2.8000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3773	0.3773	3.0000e-005	0.0000	0.3780
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	6.4000e-004	7.1000e-003	2.0000e-005	2.0600e-003	2.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.8519	1.8519	5.0000e-005	0.0000	1.8532
Total	8.8000e-004	2.0400e-003	7.3800e-003	2.0000e-005	2.1500e-003	2.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.9000e-004	0.0000	2.2292	2.2292	8.0000e-005	0.0000	2.2312

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6859					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4700e-003	0.0382	0.0454	7.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	6.3831	6.3831	4.4000e-004	0.0000	6.3941
Total	0.6914	0.0382	0.0454	7.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	6.3831	6.3831	4.4000e-004	0.0000	6.3941

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3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	7.7000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3892	2.3892	6.0000e-005	0.0000	2.3908
Total	1.0400e-003	7.7000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3892	2.3892	6.0000e-005	0.0000	2.3908

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6859					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4700e-003	0.0382	0.0454	7.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	6.3831	6.3831	4.4000e-004	0.0000	6.3941
Total	0.6914	0.0382	0.0454	7.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	6.3831	6.3831	4.4000e-004	0.0000	6.3941

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3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	7.7000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3892	2.3892	6.0000e-005	0.0000	2.3908
Total	1.0400e-003	7.7000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3892	2.3892	6.0000e-005	0.0000	2.3908

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0216	0.2409	0.1750	3.4000e-004		0.0105	0.0105		9.7200e-003	9.7200e-003	0.0000	29.7637	29.7637	9.4300e-003	0.0000	29.9994
Paving	2.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0237	0.2409	0.1750	3.4000e-004		0.0105	0.0105		9.7200e-003	9.7200e-003	0.0000	29.7637	29.7637	9.4300e-003	0.0000	29.9994

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3.7 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	8.0000e-004	9.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4847	2.4847	7.0000e-005	0.0000	2.4864
Total	1.0800e-003	8.0000e-004	9.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4847	2.4847	7.0000e-005	0.0000	2.4864

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	0.0216	0.2409	0.1750	3.4000e-004		0.0105	0.0105		9.7200e-003	9.7200e-003	0.0000	29.7637	29.7637	9.4300e-003	0.0000	29.9994
Paving	2.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0237	0.2409	0.1750	3.4000e-004		0.0105	0.0105		9.7200e-003	9.7200e-003	0.0000	29.7637	29.7637	9.4300e-003	0.0000	29.9994

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3.7 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	8.0000e-004	9.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4847	2.4847	7.0000e-005	0.0000	2.4864
Total	1.0800e-003	8.0000e-004	9.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4847	2.4847	7.0000e-005	0.0000	2.4864

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2461	1.4181	3.5714	0.0133	1.0931	0.0107	1.1038	0.2929	0.0100	0.3029	0.0000	1,225.884 7	1,225.884 7	0.0590	0.0000	1,227.360 4
Unmitigated	0.2461	1.4181	3.5714	0.0133	1.0931	0.0107	1.1038	0.2929	0.0100	0.3029	0.0000	1,225.884 7	1,225.884 7	0.0590	0.0000	1,227.360 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	723.37	723.37	723.37	2,876,746	2,876,746
Parking Lot	0.00	0.00	0.00		
Total	723.37	723.37	723.37	2,876,746	2,876,746

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Industrial Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	399.8274	399.8274	0.0226	4.6800e-003	401.7861
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	446.6590	446.6590	0.0253	5.2200e-003	448.8470
NaturalGas Mitigated	5.8200e-003	0.0529	0.0445	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.6222	57.6222	1.1000e-003	1.0600e-003	57.9646
NaturalGas Unmitigated	8.1900e-003	0.0744	0.0625	4.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	81.0166	81.0166	1.5500e-003	1.4900e-003	81.4981

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.51819e+006	8.1900e-003	0.0744	0.0625	4.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	81.0166	81.0166	1.5500e-003	1.4900e-003	81.4981
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.1900e-003	0.0744	0.0625	4.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	81.0166	81.0166	1.5500e-003	1.4900e-003	81.4981

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.0798e+006	5.8200e-003	0.0529	0.0445	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.6222	57.6222	1.1000e-003	1.0600e-003	57.9646
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.8200e-003	0.0529	0.0445	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.6222	57.6222	1.1000e-003	1.0600e-003	57.9646

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.89446e+006	440.8277	0.0249	5.1600e-003	442.9872
Parking Lot	25060	5.8313	3.3000e-004	7.0000e-005	5.8599
Total		446.6590	0.0253	5.2300e-003	448.8470

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.6932e+006	393.9962	0.0223	4.6100e-003	395.9262
Parking Lot	25060	5.8313	3.3000e-004	7.0000e-005	5.8599
Total		399.8274	0.0226	4.6800e-003	401.7861

6.0 Area Detail

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6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6016	4.0000e-005	4.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.6100e-003
Unmitigated	0.6016	4.0000e-005	4.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.6100e-003

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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	0.0694					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.6100e-003
Total	0.6016	4.0000e-005	4.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.6100e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0694					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.6100e-003
Total	0.6016	4.0000e-005	4.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.6100e-003

7.0 Water Detail

CT Warehouse Carson - South Coast AQMD Air District, Annual

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	91.9091	0.8839	0.0217	120.4825
Unmitigated	114.4860	1.1048	0.0272	150.2007

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.61957	1.6017	9.0000e-005	2.0000e-005	1.6096
Industrial Park	33.7255 / 0	112.8842	1.1047	0.0271	148.5911
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		114.4860	1.1048	0.0272	150.2007

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.61957	1.6017	9.0000e-005	2.0000e-005	1.6096
Industrial Park	26.9804 / 0	90.3074	0.8838	0.0217	118.8729
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		91.9091	0.8839	0.0217	120.4825

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.1793	0.5425	0.0000	22.7412
Unmitigated	36.7170	2.1699	0.0000	90.9648

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Industrial Park	180.84	36.7089	2.1694	0.0000	90.9447
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		36.7170	2.1699	0.0000	90.9648

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.01	2.0300e-003	1.2000e-004	0.0000	5.0300e-003
Industrial Park	45.21	9.1772	0.5424	0.0000	22.7362
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		9.1793	0.5425	0.0000	22.7412

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9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation

CT Warehouse Carson - South Coast AQMD Air District, Summer

CT Warehouse Carson
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	145.84	1000sqft	3.35	145,840.00	0
Parking Lot	179.00	Space	1.61	71,600.00	0
City Park	0.52	Acre	0.52	22,651.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	513	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

CT Warehouse Carson - South Coast AQMD Air District, Summer

Project Characteristics - Per SCE 2018 Sustainability Report Page 10

Land Use -

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment (tilt-up warehouse)

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Trips and VMT -

Demolition - On-site structures to be demolished.

Grading - Cut & fill to be mostly balanced on-site with 80cy of export.

Architectural Coating -

Vehicle Trips - 723 ADT's

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 Building Energy Efficiency Standards

Water Mitigation -

Waste Mitigation - AB 341 2020 requirements

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	4296	7735
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	40.00
tblGrading	MaterialExported	0.00	80.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	4.96
tblVehicleTrips	SU_TR	16.74	0.00

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tblVehicleTrips	SU_TR	0.73	4.96
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	4.96

2.0 Emissions Summary

CT Warehouse Carson - South Coast AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Energy	0.0449	0.4078	0.3425	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.3455	489.3455	9.3800e-003	8.9700e-003	492.2534
Mobile	1.4464	7.4704	20.7419	0.0760	6.1168	0.0589	6.1757	1.6367	0.0550	1.6917		7,727.6601	7,727.6601	0.3612		7,736.6897
Total	4.7887	7.8785	21.1178	0.0785	6.1168	0.0900	6.2068	1.6367	0.0861	1.7228		8,217.0768	8,217.0768	0.3708	8.9700e-003	8,229.0190

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Energy	0.0319	0.2900	0.2436	1.7400e-003		0.0220	0.0220		0.0220	0.0220		348.0417	348.0417	6.6700e-003	6.3800e-003	350.1099
Mobile	1.4464	7.4704	20.7419	0.0760	6.1168	0.0589	6.1757	1.6367	0.0550	1.6917		7,727.6601	7,727.6601	0.3612		7,736.6897
Total	4.7757	7.7607	21.0189	0.0777	6.1168	0.0811	6.1979	1.6367	0.0772	1.7138		8,075.7730	8,075.7730	0.3680	6.3800e-003	8,086.8755

CT Warehouse Carson - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.27	1.49	0.47	0.91	0.00	9.94	0.14	0.00	10.39	0.52	0.00	1.72	1.72	0.73	28.87	1.73

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	8/3/2020	9/11/2020	5	30	
2	Building Construction	Building Construction	8/3/2020	5/7/2021	5	200	
3	Site Preparation	Site Preparation	9/15/2020	10/26/2020	5	30	
4	Grading	Grading	10/27/2020	11/30/2020	5	25	
5	Architectural Coating	Architectural Coating	1/15/2021	2/18/2021	5	25	
6	Paving	Paving	2/15/2021	4/9/2021	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 1.61

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 218,760; Non-Residential Outdoor: 72,920; Striped Parking Area: 4,296 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Crushing/Proc. Equipment	1	8.00	85	0.78
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

CT Warehouse Carson - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	0.00	41.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	101.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2968	0.0000	0.2968	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	1.5340	15.8500	9.6791	0.0168		0.8050	0.8050		0.7406	0.7406		1,628.2294	1,628.2294	0.5266		1,641.3945
Total	1.5340	15.8500	9.6791	0.0168	0.2968	0.8050	1.1017	0.0449	0.7406	0.7855		1,628.2294	1,628.2294	0.5266		1,641.3945

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.2 Demolition - 2020

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	0.0104	0.3719	0.0740	1.0600e-003	0.0239	1.2000e-003	0.0251	6.5400e-003	1.1500e-003	7.6900e-003		114.5717	114.5717	7.6900e-003		114.7639
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	0.0362	0.0243	0.3271	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		91.5534	91.5534	2.6300e-003		91.6192
Total	0.0466	0.3963	0.4011	1.9800e-003	0.1133	1.8800e-003	0.1152	0.0303	1.7700e-003	0.0320		206.1251	206.1251	0.0103		206.3831

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1157	0.0000	0.1157	0.0175	0.0000	0.0175			0.0000			0.0000
Off-Road	1.5340	15.8500	9.6791	0.0168		0.8050	0.8050		0.7406	0.7406	0.0000	1,628.2294	1,628.2294	0.5266		1,641.3945
Total	1.5340	15.8500	9.6791	0.0168	0.1157	0.8050	0.9207	0.0175	0.7406	0.7581	0.0000	1,628.2294	1,628.2294	0.5266		1,641.3945

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.2 Demolition - 2020

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	0.0104	0.3719	0.0740	1.0600e-003	0.0239	1.2000e-003	0.0251	6.5400e-003	1.1500e-003	7.6900e-003		114.5717	114.5717	7.6900e-003		114.7639
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	0.0362	0.0243	0.3271	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		91.5534	91.5534	2.6300e-003		91.6192
Total	0.0466	0.3963	0.4011	1.9800e-003	0.1133	1.8800e-003	0.1152	0.0303	1.7700e-003	0.0320		206.1251	206.1251	0.0103		206.3831

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9619	19.8033	20.3511	0.0330		1.0023	1.0023		0.9413	0.9413		3,180.9759	3,180.9759	0.8630		3,202.5504
Total	1.9619	19.8033	20.3511	0.0330		1.0023	1.0023		0.9413	0.9413		3,180.9759	3,180.9759	0.8630		3,202.5504

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.3 Building Construction - 2020

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	0.1281	4.0925	0.9745	0.0100	0.2496	0.0203	0.2699	0.0719	0.0194	0.0913		1,070.3490	1,070.3490	0.0672		1,072.0290
Worker	0.4570	0.3072	4.1291	0.0116	1.1289	8.5600e-003	1.1375	0.2994	7.8900e-003	0.3073		1,155.8616	1,155.8616	0.0332		1,156.6924
Total	0.5850	4.3996	5.1036	0.0216	1.3786	0.0288	1.4074	0.3713	0.0273	0.3985		2,226.2106	2,226.2106	0.1004		2,228.7214

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	1.9619	19.8033	20.3511	0.0330		1.0023	1.0023		0.9413	0.9413	0.0000	3,180.9759	3,180.9759	0.8630		3,202.5504
Total	1.9619	19.8033	20.3511	0.0330		1.0023	1.0023		0.9413	0.9413	0.0000	3,180.9759	3,180.9759	0.8630		3,202.5504

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.3 Building Construction - 2020

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	0.1281	4.0925	0.9745	0.0100	0.2496	0.0203	0.2699	0.0719	0.0194	0.0913		1,070.3490	1,070.3490	0.0672		1,072.0290
Worker	0.4570	0.3072	4.1291	0.0116	1.1289	8.5600e-003	1.1375	0.2994	7.8900e-003	0.3073		1,155.8616	1,155.8616	0.0332		1,156.6924
Total	0.5850	4.3996	5.1036	0.0216	1.3786	0.0288	1.4074	0.3713	0.0273	0.3985		2,226.2106	2,226.2106	0.1004		2,228.7214

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8000	18.0461	20.1841	0.0330		0.8679	0.8679		0.8151	0.8151		3,181.5015	3,181.5015	0.8596		3,202.9926
Total	1.8000	18.0461	20.1841	0.0330		0.8679	0.8679		0.8151	0.8151		3,181.5015	3,181.5015	0.8596		3,202.9926

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1085	3.7196	0.8827	9.9500e-003	0.2496	7.4900e-003	0.2571	0.0719	7.1600e-003	0.0790		1,062.5100	1,062.5100	0.0643		1,064.1168
Worker	0.4263	0.2765	3.8049	0.0112	1.1289	8.3100e-003	1.1373	0.2994	7.6500e-003	0.3071		1,118.4774	1,118.4774	0.0301		1,119.2293
Total	0.5349	3.9961	4.6876	0.0212	1.3786	0.0158	1.3944	0.3713	0.0148	0.3861		2,180.9874	2,180.9874	0.0944		2,183.3461

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	1.8000	18.0461	20.1841	0.0330		0.8679	0.8679		0.8151	0.8151	0.0000	3,181.5015	3,181.5015	0.8596		3,202.9926
Total	1.8000	18.0461	20.1841	0.0330		0.8679	0.8679		0.8151	0.8151	0.0000	3,181.5015	3,181.5015	0.8596		3,202.9926

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1085	3.7196	0.8827	9.9500e-003	0.2496	7.4900e-003	0.2571	0.0719	7.1600e-003	0.0790		1,062.5100	1,062.5100	0.0643			1,064.1168
Worker	0.4263	0.2765	3.8049	0.0112	1.1289	8.3100e-003	1.1373	0.2994	7.6500e-003	0.3071		1,118.4774	1,118.4774	0.0301			1,119.2293
Total	0.5349	3.9961	4.6876	0.0212	1.3786	0.0158	1.3944	0.3713	0.0148	0.3861		2,180.9874	2,180.9874	0.0944			2,183.3461

3.4 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000				0.0000
Off-Road	1.2890	13.4374	6.4113	0.0116		0.6881	0.6881		0.6331	0.6331		1,128.1110	1,128.1110	0.3649			1,137.2324
Total	1.2890	13.4374	6.4113	0.0116	6.0221	0.6881	6.7102	3.3102	0.6331	3.9433		1,128.1110	1,128.1110	0.3649			1,137.2324

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.4 Site Preparation - 2020

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	0.0226	0.0152	0.2044	5.7000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		57.2209	57.2209	1.6500e-003		57.2620
Total	0.0226	0.0152	0.2044	5.7000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		57.2209	57.2209	1.6500e-003		57.2620

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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.2890	13.4374	6.4113	0.0116		0.6881	0.6881		0.6331	0.6331	0.0000	1,128.1110	1,128.1110	0.3649		1,137.2324
Total	1.2890	13.4374	6.4113	0.0116	2.3486	0.6881	3.0367	1.2910	0.6331	1.9240	0.0000	1,128.1110	1,128.1110	0.3649		1,137.2324

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.4 Site Preparation - 2020

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	0.0226	0.0152	0.2044	5.7000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		57.2209	57.2209	1.6500e-003		57.2620
Total	0.0226	0.0152	0.2044	5.7000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		57.2209	57.2209	1.6500e-003		57.2620

3.5 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7726	0.0000	4.7726	0.5154	0.0000	0.5154			0.0000			0.0000
Off-Road	4.9415	58.5730	35.7709	0.0734		2.3121	2.3121		2.1272	2.1272		7,109.5832	7,109.5832	2.2994		7,167.0678
Total	4.9415	58.5730	35.7709	0.0734	4.7726	2.3121	7.0847	0.5154	2.1272	2.6425		7,109.5832	7,109.5832	2.2994		7,167.0678

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.5 Grading - 2020

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	3.0400e-003	0.1089	0.0217	3.1000e-004	6.9900e-003	3.5000e-004	7.3400e-003	1.9200e-003	3.4000e-004	2.2500e-003		33.5332	33.5332	2.2500e-003		33.5894
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	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	0.0709	0.1545	0.6349	2.0300e-003	0.1747	1.6200e-003	0.1763	0.0464	1.5100e-003	0.0479		205.1958	205.1958	7.1900e-003		205.3754

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					1.8613	0.0000	1.8613	0.2010	0.0000	0.2010			0.0000			0.0000
Off-Road	4.9415	58.5730	35.7709	0.0734		2.3121	2.3121		2.1272	2.1272	0.0000	7,109.5832	7,109.5832	2.2994		7,167.0678
Total	4.9415	58.5730	35.7709	0.0734	1.8613	2.3121	4.1735	0.2010	2.1272	2.3281	0.0000	7,109.5832	7,109.5832	2.2994		7,167.0678

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.5 Grading - 2020

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	3.0400e-003	0.1089	0.0217	3.1000e-004	6.9900e-003	3.5000e-004	7.3400e-003	1.9200e-003	3.4000e-004	2.2500e-003		33.5332	33.5332	2.2500e-003		33.5894
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	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	0.0709	0.1545	0.6349	2.0300e-003	0.1747	1.6200e-003	0.1763	0.0464	1.5100e-003	0.0479		205.1958	205.1958	7.1900e-003		205.3754

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	54.8740					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618
Total	55.3118	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296

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	54.8740					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618
Total	55.3118	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0791	12.0443	8.7503	0.0171		0.5269	0.5269		0.4859	0.4859		1,640.4423	1,640.4423	0.5197		1,653.4354
Paving	0.1055					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1846	12.0443	8.7503	0.0171		0.5269	0.5269		0.4859	0.4859		1,640.4423	1,640.4423	0.5197		1,653.4354

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.7 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592
Total	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592

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	1.0791	12.0443	8.7503	0.0171		0.5269	0.5269		0.4859	0.4859	0.0000	1,640.4423	1,640.4423	0.5197		1,653.4354
Paving	0.1055					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1846	12.0443	8.7503	0.0171		0.5269	0.5269		0.4859	0.4859	0.0000	1,640.4423	1,640.4423	0.5197		1,653.4354

CT Warehouse Carson - South Coast AQMD Air District, Summer

3.7 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592
Total	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

CT Warehouse Carson - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4464	7.4704	20.7419	0.0760	6.1168	0.0589	6.1757	1.6367	0.0550	1.6917		7,727.660 1	7,727.660 1	0.3612		7,736.689 7
Unmitigated	1.4464	7.4704	20.7419	0.0760	6.1168	0.0589	6.1757	1.6367	0.0550	1.6917		7,727.660 1	7,727.660 1	0.3612		7,736.689 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	723.37	723.37	723.37	2,876,746	2,876,746
Parking Lot	0.00	0.00	0.00		
Total	723.37	723.37	723.37	2,876,746	2,876,746

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

CT Warehouse Carson - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Industrial Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0319	0.2900	0.2436	1.7400e-003		0.0220	0.0220		0.0220	0.0220		348.0417	348.0417	6.6700e-003	6.3800e-003	350.1099
NaturalGas Unmitigated	0.0449	0.4078	0.3425	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.3455	489.3455	9.3800e-003	8.9700e-003	492.2534

CT Warehouse Carson - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - Natural Gas

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4159.44	0.0449	0.4078	0.3425	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.3455	489.3455	9.3800e-003	8.9700e-003	492.2534
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0449	0.4078	0.3425	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.3455	489.3455	9.3800e-003	8.9700e-003	492.2534

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	2.95835	0.0319	0.2900	0.2436	1.7400e-003		0.0220	0.0220		0.0220	0.0220		348.0417	348.0417	6.6700e-003	6.3800e-003	350.1099
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0319	0.2900	0.2436	1.7400e-003		0.0220	0.0220		0.0220	0.0220		348.0417	348.0417	6.6700e-003	6.3800e-003	350.1099

6.0 Area Detail

CT Warehouse Carson - South Coast AQMD Air District, Summer

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Unmitigated	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759

CT Warehouse Carson - South Coast AQMD Air District, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9142					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.1100e-003	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Total	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9142					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.1100e-003	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Total	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759

7.0 Water Detail

CT Warehouse Carson - South Coast AQMD Air District, Summer

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

CT Warehouse Carson - South Coast AQMD Air District, Winter

CT Warehouse Carson
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	145.84	1000sqft	3.35	145,840.00	0
Parking Lot	179.00	Space	1.61	71,600.00	0
City Park	0.52	Acre	0.52	22,651.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	513	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

CT Warehouse Carson - South Coast AQMD Air District, Winter

Project Characteristics - Per SCE 2018 Sustainability Report Page 10

Land Use -

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment (tilt-up warehouse)

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Off-road Equipment - anticipated construction equipment.

Trips and VMT -

Demolition - On-site structures to be demolished.

Grading - Cut & fill to be mostly balanced on-site with 80cy of export.

Architectural Coating -

Vehicle Trips - 723 ADT's

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 Building Energy Efficiency Standards

Water Mitigation -

Waste Mitigation - AB 341 2020 requirements

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	4296	7735
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

CT Warehouse Carson - South Coast AQMD Air District, Winter

tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	40.00
tblGrading	MaterialExported	0.00	80.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	4.96
tblVehicleTrips	SU_TR	16.74	0.00

CT Warehouse Carson - South Coast AQMD Air District, Winter

tblVehicleTrips	SU_TR	0.73	4.96
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	4.96

2.0 Emissions Summary

CT Warehouse Carson - South Coast AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Energy	0.0449	0.4078	0.3425	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.3455	489.3455	9.3800e-003	8.9700e-003	492.2534
Mobile	1.3777	7.6528	19.2766	0.0719	6.1168	0.0592	6.1760	1.6367	0.0553	1.6920		7,320.4581	7,320.4581	0.3592		7,329.4370
Total	4.7200	8.0609	19.6525	0.0744	6.1168	0.0903	6.2071	1.6367	0.0864	1.7231		7,809.8748	7,809.8748	0.3687	8.9700e-003	7,821.7664

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Energy	0.0319	0.2900	0.2436	1.7400e-003		0.0220	0.0220		0.0220	0.0220		348.0417	348.0417	6.6700e-003	6.3800e-003	350.1099
Mobile	1.3777	7.6528	19.2766	0.0719	6.1168	0.0592	6.1760	1.6367	0.0553	1.6920		7,320.4581	7,320.4581	0.3592		7,329.4370
Total	4.7071	7.9431	19.5536	0.0737	6.1168	0.0814	6.1982	1.6367	0.0775	1.7141		7,668.5710	7,668.5710	0.3660	6.3800e-003	7,679.6229

CT Warehouse Carson - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.27	1.46	0.50	0.95	0.00	9.91	0.14	0.00	10.36	0.52	0.00	1.81	1.81	0.73	28.87	1.82

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	8/3/2020	9/11/2020	5	30	
2	Building Construction	Building Construction	8/3/2020	5/7/2021	5	200	
3	Site Preparation	Site Preparation	9/15/2020	10/26/2020	5	30	
4	Grading	Grading	10/27/2020	11/30/2020	5	25	
5	Architectural Coating	Architectural Coating	1/15/2021	2/18/2021	5	25	
6	Paving	Paving	2/15/2021	4/9/2021	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 1.61

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 218,760; Non-Residential Outdoor: 72,920; Striped Parking Area: 4,296 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

CT Warehouse Carson - South Coast AQMD Air District, Winter

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Crushing/Proc. Equipment	1	8.00	85	0.78
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

CT Warehouse Carson - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	0.00	41.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	101.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2968	0.0000	0.2968	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	1.5340	15.8500	9.6791	0.0168		0.8050	0.8050		0.7406	0.7406		1,628.2294	1,628.2294	0.5266		1,641.3945
Total	1.5340	15.8500	9.6791	0.0168	0.2968	0.8050	1.1017	0.0449	0.7406	0.7855		1,628.2294	1,628.2294	0.5266		1,641.3945

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.2 Demolition - 2020

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	0.0107	0.3767	0.0797	1.0400e-003	0.0239	1.2200e-003	0.0251	6.5400e-003	1.1600e-003	7.7100e-003		112.4627	112.4627	8.0200e-003		112.6633
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	0.0395	0.0266	0.2945	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		85.6292	85.6292	2.4600e-003		85.6906
Total	0.0502	0.4033	0.3741	1.9000e-003	0.1133	1.9000e-003	0.1152	0.0303	1.7800e-003	0.0321		198.0919	198.0919	0.0105		198.3539

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1157	0.0000	0.1157	0.0175	0.0000	0.0175			0.0000			0.0000
Off-Road	1.5340	15.8500	9.6791	0.0168		0.8050	0.8050		0.7406	0.7406	0.0000	1,628.2294	1,628.2294	0.5266		1,641.3945
Total	1.5340	15.8500	9.6791	0.0168	0.1157	0.8050	0.9207	0.0175	0.7406	0.7581	0.0000	1,628.2294	1,628.2294	0.5266		1,641.3945

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.2 Demolition - 2020

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	0.0107	0.3767	0.0797	1.0400e-003	0.0239	1.2200e-003	0.0251	6.5400e-003	1.1600e-003	7.7100e-003		112.4627	112.4627	8.0200e-003		112.6633
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	0.0395	0.0266	0.2945	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		85.6292	85.6292	2.4600e-003		85.6906
Total	0.0502	0.4033	0.3741	1.9000e-003	0.1133	1.9000e-003	0.1152	0.0303	1.7800e-003	0.0321		198.0919	198.0919	0.0105		198.3539

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9619	19.8033	20.3511	0.0330		1.0023	1.0023		0.9413	0.9413		3,180.9759	3,180.9759	0.8630		3,202.5504
Total	1.9619	19.8033	20.3511	0.0330		1.0023	1.0023		0.9413	0.9413		3,180.9759	3,180.9759	0.8630		3,202.5504

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.3 Building Construction - 2020

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	0.1342	4.0882	1.0865	9.7500e-003	0.2496	0.0206	0.2702	0.0719	0.0197	0.0915		1,039.4000	1,039.4000	0.0722		1,041.2043
Worker	0.4984	0.3363	3.7177	0.0109	1.1289	8.5600e-003	1.1375	0.2994	7.8900e-003	0.3073		1,081.0686	1,081.0686	0.0310		1,081.8437
Total	0.6326	4.4246	4.8042	0.0206	1.3786	0.0291	1.4077	0.3713	0.0276	0.3988		2,120.4686	2,120.4686	0.1032		2,123.0480

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	1.9619	19.8033	20.3511	0.0330		1.0023	1.0023		0.9413	0.9413	0.0000	3,180.9759	3,180.9759	0.8630		3,202.5504
Total	1.9619	19.8033	20.3511	0.0330		1.0023	1.0023		0.9413	0.9413	0.0000	3,180.9759	3,180.9759	0.8630		3,202.5504

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.3 Building Construction - 2020

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	0.1342	4.0882	1.0865	9.7500e-003	0.2496	0.0206	0.2702	0.0719	0.0197	0.0915		1,039.4000	1,039.4000	0.0722		1,041.2043
Worker	0.4984	0.3363	3.7177	0.0109	1.1289	8.5600e-003	1.1375	0.2994	7.8900e-003	0.3073		1,081.0686	1,081.0686	0.0310		1,081.8437
Total	0.6326	4.4246	4.8042	0.0206	1.3786	0.0291	1.4077	0.3713	0.0276	0.3988		2,120.4686	2,120.4686	0.1032		2,123.0480

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8000	18.0461	20.1841	0.0330		0.8679	0.8679		0.8151	0.8151		3,181.5015	3,181.5015	0.8596		3,202.9926
Total	1.8000	18.0461	20.1841	0.0330		0.8679	0.8679		0.8151	0.8151		3,181.5015	3,181.5015	0.8596		3,202.9926

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1142	3.7079	0.9877	9.6700e-003	0.2496	7.7300e-003	0.2573	0.0719	7.3900e-003	0.0793		1,031.7458	1,031.7458	0.0690		1,033.4716
Worker	0.4658	0.3027	3.4193	0.0105	1.1289	8.3100e-003	1.1373	0.2994	7.6500e-003	0.3071		1,046.0246	1,046.0246	0.0280		1,046.7254
Total	0.5800	4.0105	4.4070	0.0202	1.3786	0.0160	1.3946	0.3713	0.0150	0.3863		2,077.7703	2,077.7703	0.0971		2,080.1969

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	1.8000	18.0461	20.1841	0.0330		0.8679	0.8679		0.8151	0.8151	0.0000	3,181.5015	3,181.5015	0.8596		3,202.9926
Total	1.8000	18.0461	20.1841	0.0330		0.8679	0.8679		0.8151	0.8151	0.0000	3,181.5015	3,181.5015	0.8596		3,202.9926

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1142	3.7079	0.9877	9.6700e-003	0.2496	7.7300e-003	0.2573	0.0719	7.3900e-003	0.0793		1,031.7458	1,031.7458	0.0690		1,033.4716
Worker	0.4658	0.3027	3.4193	0.0105	1.1289	8.3100e-003	1.1373	0.2994	7.6500e-003	0.3071		1,046.0246	1,046.0246	0.0280		1,046.7254
Total	0.5800	4.0105	4.4070	0.0202	1.3786	0.0160	1.3946	0.3713	0.0150	0.3863		2,077.7703	2,077.7703	0.0971		2,080.1969

3.4 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.2890	13.4374	6.4113	0.0116		0.6881	0.6881		0.6331	0.6331		1,128.1110	1,128.1110	0.3649		1,137.2324
Total	1.2890	13.4374	6.4113	0.0116	6.0221	0.6881	6.7102	3.3102	0.6331	3.9433		1,128.1110	1,128.1110	0.3649		1,137.2324

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.4 Site Preparation - 2020

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	0.0247	0.0167	0.1840	5.4000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		53.5183	53.5183	1.5300e-003		53.5566
Total	0.0247	0.0167	0.1840	5.4000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		53.5183	53.5183	1.5300e-003		53.5566

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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.2890	13.4374	6.4113	0.0116		0.6881	0.6881		0.6331	0.6331	0.0000	1,128.1110	1,128.1110	0.3649		1,137.2324
Total	1.2890	13.4374	6.4113	0.0116	2.3486	0.6881	3.0367	1.2910	0.6331	1.9240	0.0000	1,128.1110	1,128.1110	0.3649		1,137.2324

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.4 Site Preparation - 2020

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	0.0247	0.0167	0.1840	5.4000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		53.5183	53.5183	1.5300e-003		53.5566
Total	0.0247	0.0167	0.1840	5.4000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		53.5183	53.5183	1.5300e-003		53.5566

3.5 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7726	0.0000	4.7726	0.5154	0.0000	0.5154			0.0000			0.0000
Off-Road	4.9415	58.5730	35.7709	0.0734		2.3121	2.3121		2.1272	2.1272		7,109.5832	7,109.5832	2.2994		7,167.0678
Total	4.9415	58.5730	35.7709	0.0734	4.7726	2.3121	7.0847	0.5154	2.1272	2.6425		7,109.5832	7,109.5832	2.2994		7,167.0678

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.5 Grading - 2020

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	3.1300e-003	0.1103	0.0233	3.0000e-004	6.9900e-003	3.6000e-004	7.3500e-003	1.9200e-003	3.4000e-004	2.2600e-003		32.9159	32.9159	2.3500e-003		32.9746
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	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	0.0772	0.1602	0.5755	1.9100e-003	0.1747	1.6300e-003	0.1763	0.0464	1.5100e-003	0.0479		193.4707	193.4707	6.9500e-003		193.6445

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					1.8613	0.0000	1.8613	0.2010	0.0000	0.2010			0.0000			0.0000
Off-Road	4.9415	58.5730	35.7709	0.0734		2.3121	2.3121		2.1272	2.1272	0.0000	7,109.5832	7,109.5832	2.2994		7,167.0678
Total	4.9415	58.5730	35.7709	0.0734	1.8613	2.3121	4.1735	0.2010	2.1272	2.3281	0.0000	7,109.5832	7,109.5832	2.2994		7,167.0678

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.5 Grading - 2020

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	3.1300e-003	0.1103	0.0233	3.0000e-004	6.9900e-003	3.6000e-004	7.3500e-003	1.9200e-003	3.4000e-004	2.2600e-003		32.9159	32.9159	2.3500e-003		32.9746
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	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	0.0772	0.1602	0.5755	1.9100e-003	0.1747	1.6300e-003	0.1763	0.0464	1.5100e-003	0.0479		193.4707	193.4707	6.9500e-003		193.6445

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	54.8740					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618
Total	55.3118	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724

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	54.8740					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618
Total	55.3118	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0791	12.0443	8.7503	0.0171		0.5269	0.5269		0.4859	0.4859		1,640.4423	1,640.4423	0.5197		1,653.4354
Paving	0.1055					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1846	12.0443	8.7503	0.0171		0.5269	0.5269		0.4859	0.4859		1,640.4423	1,640.4423	0.5197		1,653.4354

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.7 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270
Total	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270

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	1.0791	12.0443	8.7503	0.0171		0.5269	0.5269		0.4859	0.4859	0.0000	1,640.4423	1,640.4423	0.5197		1,653.4354
Paving	0.1055					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1846	12.0443	8.7503	0.0171		0.5269	0.5269		0.4859	0.4859	0.0000	1,640.4423	1,640.4423	0.5197		1,653.4354

CT Warehouse Carson - South Coast AQMD Air District, Winter

3.7 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270
Total	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

CT Warehouse Carson - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3777	7.6528	19.2766	0.0719	6.1168	0.0592	6.1760	1.6367	0.0553	1.6920		7,320.458 1	7,320.458 1	0.3592		7,329.437 0
Unmitigated	1.3777	7.6528	19.2766	0.0719	6.1168	0.0592	6.1760	1.6367	0.0553	1.6920		7,320.458 1	7,320.458 1	0.3592		7,329.437 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	723.37	723.37	723.37	2,876,746	2,876,746
Parking Lot	0.00	0.00	0.00		
Total	723.37	723.37	723.37	2,876,746	2,876,746

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

CT Warehouse Carson - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Industrial Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0319	0.2900	0.2436	1.7400e-003		0.0220	0.0220		0.0220	0.0220		348.0417	348.0417	6.6700e-003	6.3800e-003	350.1099
NaturalGas Unmitigated	0.0449	0.4078	0.3425	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.3455	489.3455	9.3800e-003	8.9700e-003	492.2534

CT Warehouse Carson - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - Natural Gas

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4159.44	0.0449	0.4078	0.3425	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.3455	489.3455	9.3800e-003	8.9700e-003	492.2534
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0449	0.4078	0.3425	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.3455	489.3455	9.3800e-003	8.9700e-003	492.2534

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	2.95835	0.0319	0.2900	0.2436	1.7400e-003		0.0220	0.0220		0.0220	0.0220		348.0417	348.0417	6.6700e-003	6.3800e-003	350.1099
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0319	0.2900	0.2436	1.7400e-003		0.0220	0.0220		0.0220	0.0220		348.0417	348.0417	6.6700e-003	6.3800e-003	350.1099

6.0 Area Detail

CT Warehouse Carson - South Coast AQMD Air District, Winter

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004			0.0759
Unmitigated	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004			0.0759

CT Warehouse Carson - South Coast AQMD Air District, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9142					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.1100e-003	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Total	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9142					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.1100e-003	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759
Total	3.2975	3.1000e-004	0.0334	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0712	0.0712	1.9000e-004		0.0759

7.0 Water Detail

CT Warehouse Carson - South Coast AQMD Air District, Winter

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

**CT Warehouse Project
Energy Calculations**

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
City Park	0		0	0
General Light Industry	1,079,800	10,798	1,693,200	1,693
Parking Lot	0		25,060	25
Totals	1,079,800	10,798	1,718,260	1,718

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Los Angeles County Annual Energy	Percentage Increase Countywide
Electricity	1,718	68,486,000	0.0025%
Natural Gas	10,798	2,921,000,000	0.0004%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

CT Warehouse Project Energy Calculations

Vehicle Type	Percent of Vehicle Trips ¹	Daily Trips ²	Annual Vehicle Miles Traveled ³	Average Fuel Economy (miles per gallon) ⁴	Total Annual Fuel Consumption (gallons) ⁵
Passenger Cars	0.55	--	1578925.06	22	71,769
Light/Medium Trucks	0.39	--	1111091.36	17.3	64,225
Heavy Trucks/Other	0.06	--	186729.58	6.4	29,176
TOTAL⁶	1.00	--	2,876,746	--	165,171

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips calculated by multiplying the total daily trips by percent vehicle trips (i.e., Daily Trips x percent of Vehicle Trips).
3. Daily Vehicle Miles Traveled (VMT) calculated by multiplying percent vehicle trips by total VMT (i.e., VMT x percent of Vehicle Trips).
4. Average fuel economy derived from the Department of Transportation.
5. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
6. Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

**CT Warehouse Project
Energy Calculations**

WORKER TRIPS							
Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption	
Demolition	30	8	14.7	3528		141.67	
Site Preparation	30	5	14.7	2205		88.54	
Grading	25	15	14.7	5513	24.90284233	221.36	
Paving	40	13	14.7	7644		306.95	
Building Construction	200	125	14.7	1838		73.79	
Architectural Coating	25	25	14.7	368		14.76	
						847.07	
VENDOR TRIPS							
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption	
Demolition	30	0	6.9	0		0.00	
Site Preparation	30	0	6.9	0		0.00	
Grading	25	0	6.9	0	8.343886151	0.00	
Paving	40	0	6.9	0		0.00	
Building Construction	200	49	6.9	338		40.52	
Architectural Coating	25	0	6.9	0		0.00	
						40.52	
HAULING TRIPS							
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)¹	Total Fuel Consumption	
Demolition	30	41	20	820		98.28	
Site Preparation	30	0	20	0		0.00	
Grading	25	10	20	200	8.343886151	23.97	
Paving	40	0	20	0		0.00	
Building Construction	200	0	20	0		0.00	
Architectural Coating	25	0	20	0		0.00	
						122.25	
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION						1,009.84	

**CT Warehouse Project
Energy Calculations**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Demolition	Excavators	1	8	158	0.38	2.4016	8	30	576.38
	Rubber Tired Dozers	2	8	247	0.4	3.952	16	30	1896.96
	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	30	344.54
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	30	344.54
	Rubber Tired Dozers	1	8	247	0.04	0.3952	8	30	94.85
Grading	Graders	1	8	187	0.41	3.0668	8	25	613.36
	Other Construction Equipment	1	8	172	0.42	2.8896	8	25	577.92
	Scrapers	4	8	367	0.48	7.0464	32	25	5637.12
Paving	Rollers	1	8	80	0.38	1.216	8	40	389.12
	Paving Equipment	1	8	132	0.36	1.9008	8	40	608.26
	Graders	1	8	187	0.41	3.0668	8	40	981.38
	Signal Boards	1	8	6	0.82	0.1968	8	40	62.98
	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	40	459.39
Building Construction	Cranes	1	7	231	0.29	2.6796	7	200	3751.44
	Crushing/Proc. Equipment	1	8	85	0.78	2.652	8	200	4243.20
	Excavators	1	8	158	0.38	2.4016	8	200	3842.56
	Rough Terrain Forklifts	3	8	100	0.4	1.6	24	200	7680.00
	Tractors/Loaders/Backhoes	2	7	97	0.37	1.4356	14	200	4019.68
Architectural Coating	Air Compressors	2	6	78	0.48	1.4976	12	25	449.28

Total: 37,583

Notes: Off-Site Mobile Construction Total: 1,009.84

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor **TOTAL: 38,593**

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.