

City of Eastvale

LBA Realty Eastvale Industrial Development Project

Draft **Environmental Impact Report**

SCH No. 2015031107



December 2015

DRAFT
ENVIRONMENTAL IMPACT REPORT

**LBA REALTY EASTVALE INDUSTRIAL
DEVELOPMENT PROJECT**

Prepared by:

City of Eastvale
Community Development Department
12363 Limonite Avenue, Suite 910
Eastvale, California 91752
Contact: Mr. Eric Norris, Planning Director
(951) 703-4460

Prepared with the assistance of:

Rincon Consultants, Inc.
5005 La Mart Drive, Suite 201
Riverside, California 92507
(951) 782-0061

December 2015

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Appendix B

Air Quality/Health Risk Assessment Files



LGA Realty Eastvale Industrial Development Project
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	446.17	1000sqft	10.24	446,170.00	0
Other Non-Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0
Parking Lot	447.00	Space	4.02	178,800.00	0
Parking Lot	5.30	Acre	5.30	230,868.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking = 319 vehicle stalls + 128 equiv stalls for trailer parking = 447 spaces

Secondary access + overflow parking = 5.3 acres

Retaining wall = 1,000 linear feet * ~10ft assumed disturbance width = 10 ksf

Construction Phase - default phase lengths multiplied by 1.75 to reflect construction schedule June 2016 - December 2018

Demolition - Demo square footage for concrete channel and retention basin estimated based on aerial imagery/approx ground coverage.

Grading - Default disturbance area of 132.5 acres used (accounts for multiple grading passes during construction). All cut/fill would be balanced on site.

Architectural Coating - Modeling also assumes a VOC of 100 g/L for interior paints pursuant to SCAQMD Rule 1113.

Vehicle Trips - Based on 766 total trips (398 passenger and 368 truck) from traffic study (1.72 trips/ksf/day)

Vehicle Emission Factors - Annual fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Vehicle Emission Factors - Summer fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Vehicle Emission Factors - Winter fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Area Coating - Modeling also assumes a VOC of 100 g/L for interior paints pursuant to SCAQMD Rule 1113.

Area Mitigation - Mitigation requiring use of low VOC paints with VOC content not exceeding 50 g/l for interior and exterior painting.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	300.00	525.00
tblConstructionPhase	NumDays	30.00	53.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	PhaseEndDate	1/2/2019	12/14/2018
tblConstructionPhase	PhaseStartDate	11/1/2018	10/15/2018
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleEF	HHD	0.04	0.24

tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	MHD	0.01	0.24

tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleTrips	ST_TR	2.59	0.00
tblVehicleTrips	SU_TR	2.59	0.00
tblVehicleTrips	WD_TR	2.59	1.72

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5561	74.9042	51.6272	0.1055	18.2675	3.5856	21.2074	9.9840	3.2988	12.6888	0.0000	9,708.342 0	9,708.342 0	1.9446	0.0000	9,749.177 7
2017	5.3482	38.6914	48.3145	0.1055	4.9621	2.0132	6.9753	1.3342	1.8864	3.2207	0.0000	9,468.314 1	9,468.314 1	0.8283	0.0000	9,485.708 2
2018	135.5713	34.4841	45.3865	0.1054	4.9619	1.7141	6.6760	1.3341	1.6071	2.9413	0.0000	9,239.946 7	9,239.946 7	0.8051	0.0000	9,256.854 2
Total	147.4755	148.0797	145.3282	0.3164	28.1914	7.3130	34.8587	12.6524	6.7923	18.8507	0.0000	28,416.60 28	28,416.60 28	3.5780	0.0000	28,491.74 01

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5561	74.9042	51.6272	0.1055	18.2675	3.5856	21.2074	9.9840	3.2988	12.6888	0.0000	9,708.342 0	9,708.342 0	1.9446	0.0000	9,749.177 7
2017	5.3482	38.6914	48.3145	0.1055	4.9621	2.0132	6.9753	1.3342	1.8864	3.2207	0.0000	9,468.314 1	9,468.314 1	0.8283	0.0000	9,485.708 2
2018	135.5713	34.4841	45.3865	0.1054	4.9619	1.7141	6.6760	1.3341	1.6071	2.9413	0.0000	9,239.946 7	9,239.946 7	0.8051	0.0000	9,256.854 2
Total	147.4755	148.0797	145.3282	0.3164	28.1914	7.3130	34.8587	12.6524	6.7923	18.8507	0.0000	28,416.60 28	28,416.60 28	3.5780	0.0000	28,491.74 01

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	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Energy	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Mobile	3.4004	36.5182	40.9992	0.1637	7.5072	0.8174	8.3246	2.0691	0.7521	2.8212		14,769.5892	14,769.5892	0.1600		14,772.9484
Total	23.5555	36.7755	41.3083	0.1652	7.5072	0.8372	8.3445	2.0691	0.7719	2.8411		15,077.5410	15,077.5410	0.1664	5.6400e-003	15,082.7846

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	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Energy	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Mobile	3.4004	36.5182	40.9992	0.1637	7.5072	0.8174	8.3246	2.0691	0.7521	2.8212		14,769.5892	14,769.5892	0.1600		14,772.9484
Total	21.1760	36.7755	41.3083	0.1652	7.5072	0.8372	8.3445	2.0691	0.7719	2.8411		15,077.5410	15,077.5410	0.1664	5.6400e-003	15,082.7846

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/4/2016	5/31/2016	5	20	
2	Site Preparation	Site Preparation	6/1/2016	6/24/2016	5	18	
3	Grading	Grading	6/25/2016	9/7/2016	5	53	
4	Building Construction	Building Construction	9/8/2016	9/12/2018	5	525	
5	Paving	Paving	9/13/2018	10/31/2018	5	35	
6	Architectural Coating	Architectural Coating	10/15/2018	12/14/2018	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 132.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 702,690; Non-Residential Outdoor: 234,230 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	309.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	364.00	142.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	73.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

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					3.3675	0.0000	3.3675	0.5099	0.0000	0.5099			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	4.2876	45.6559	35.0303	0.0399	3.3675	2.2921	5.6596	0.5099	2.1365	2.6464		4,089.284 1	4,089.284 1	1.1121		4,112.637 4

3.2 Demolition - 2016

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	0.2314	4.0940	2.6136	0.0110	0.2695	0.0749	0.3444	0.0738	0.0689	0.1427		1,109.5080	1,109.5080	7.0100e-003		1,109.6552
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	0.0575	0.0679	0.8507	2.0100e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		166.4372	166.4372	7.1800e-003		166.5880
Total	0.2888	4.1619	3.4642	0.0130	0.4372	0.0760	0.5132	0.1183	0.0699	0.1882		1,275.9453	1,275.9453	0.0142		1,276.2432

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3675	0.0000	3.3675	0.5099	0.0000	0.5099			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121		4,112.6374
Total	4.2876	45.6559	35.0303	0.0399	3.3675	2.2921	5.6596	0.5099	2.1365	2.6464	0.0000	4,089.2841	4,089.2841	1.1121		4,112.6374

3.2 Demolition - 2016

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	0.2314	4.0940	2.6136	0.0110	0.2695	0.0749	0.3444	0.0738	0.0689	0.1427		1,109.5080	1,109.5080	7.0100e-003		1,109.6552
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	0.0575	0.0679	0.8507	2.0100e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		166.4372	166.4372	7.1800e-003		166.5880
Total	0.2888	4.1619	3.4642	0.0130	0.4372	0.0760	0.5132	0.1183	0.0699	0.1882		1,275.9453	1,275.9453	0.0142		1,276.2432

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

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	0.0690	0.0814	1.0208	2.4100e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		199.7247	199.7247	8.6100e-003		199.9056
Total	0.0690	0.0814	1.0208	2.4100e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		199.7247	199.7247	8.6100e-003		199.9056

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

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	0.0690	0.0814	1.0208	2.4100e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		199.7247	199.7247	8.6100e-003			199.9056
Total	0.0690	0.0814	1.0208	2.4100e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		199.7247	199.7247	8.6100e-003			199.9056

3.4 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350			6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350			6,455.6154

3.4 Grading - 2016

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	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		221.9163	221.9163	9.5700e-003		222.1173
Total	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		221.9163	221.9163	9.5700e-003		222.1173

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

3.4 Grading - 2016

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	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		221.9163	221.9163	9.5700e-003			222.1173
Total	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		221.9163	221.9163	9.5700e-003			222.1173

3.5 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

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	1.1043	11.9160	12.4779	0.0299	0.8934	0.2313	1.1247	0.2552	0.2127	0.4679		3,000.1785	3,000.1785	0.0195			3,000.5885
Worker	1.3947	1.6469	20.6427	0.0488	4.0687	0.0254	4.0941	1.0790	0.0234	1.1024		4,038.8771	4,038.8771	0.1742			4,042.5354
Total	2.4990	13.5629	33.1206	0.0787	4.9621	0.2567	5.2188	1.3342	0.2361	1.5703		7,039.0556	7,039.0556	0.1937			7,043.1238

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

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	1.1043	11.9160	12.4779	0.0299	0.8934	0.2313	1.1247	0.2552	0.2127	0.4679		3,000.1785	3,000.1785	0.0195			3,000.5885
Worker	1.3947	1.6469	20.6427	0.0488	4.0687	0.0254	4.0941	1.0790	0.0234	1.1024		4,038.8771	4,038.8771	0.1742			4,042.5354
Total	2.4990	13.5629	33.1206	0.0787	4.9621	0.2567	5.2188	1.3342	0.2361	1.5703		7,039.0556	7,039.0556	0.1937			7,043.1238

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

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	0.9964	10.8080	11.6466	0.0298	0.8934	0.2073	1.1007	0.2552	0.1906	0.4458		2,949.5199	2,949.5199	0.0188			2,949.9149
Worker	1.2494	1.4777	18.5388	0.0488	4.0687	0.0247	4.0934	1.0790	0.0228	1.1019		3,878.9889	3,878.9889	0.1598			3,882.3443
Total	2.2458	12.2857	30.1853	0.0787	4.9621	0.2320	5.1941	1.3342	0.2135	1.5477		6,828.5088	6,828.5088	0.1786			6,832.2592

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

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	0.9964	10.8080	11.6466	0.0298	0.8934	0.2073	1.1007	0.2552	0.1906	0.4458		2,949.5199	2,949.5199	0.0188			2,949.9149
Worker	1.2494	1.4777	18.5388	0.0488	4.0687	0.0247	4.0934	1.0790	0.0228	1.1019		3,878.9889	3,878.9889	0.1598			3,882.3443
Total	2.2458	12.2857	30.1853	0.0787	4.9621	0.2320	5.1941	1.3342	0.2135	1.5477		6,828.5088	6,828.5088	0.1786			6,832.2592

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.9224	9.8873	11.0844	0.0298	0.8932	0.1955	1.0887	0.2551	0.1798	0.4349		2,898.198 2	2,898.198 2	0.0187			2,898.590 2
Worker	1.1261	1.3359	16.7694	0.0488	4.0687	0.0244	4.0930	1.0790	0.0226	1.1016		3,731.809 5	3,731.809 5	0.1478			3,734.912 3
Total	2.0485	11.2232	27.8538	0.0786	4.9619	0.2198	5.1817	1.3341	0.2024	1.5365		6,630.007 7	6,630.007 7	0.1664			6,633.502 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.938 9	2,609.938 9	0.6387			2,623.351 7
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.938 9	2,609.938 9	0.6387			2,623.351 7

3.5 Building Construction - 2018

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	0.9224	9.8873	11.0844	0.0298	0.8932	0.1955	1.0887	0.2551	0.1798	0.4349		2,898.198 2	2,898.198 2	0.0187			2,898.590 2
Worker	1.1261	1.3359	16.7694	0.0488	4.0687	0.0244	4.0930	1.0790	0.0226	1.1016		3,731.809 5	3,731.809 5	0.1478			3,734.912 3
Total	2.0485	11.2232	27.8538	0.0786	4.9619	0.2198	5.1817	1.3341	0.2024	1.5365		6,630.007 7	6,630.007 7	0.1664			6,633.502 5

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.269 5	2,245.269 5	0.6990			2,259.948 1
Paving	0.6977					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3091	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.269 5	2,245.269 5	0.6990			2,259.948 1

3.6 Paving - 2018

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	0.0464	0.0551	0.6911	2.0100e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		153.7834	153.7834	6.0900e-003			153.9112
Total	0.0464	0.0551	0.6911	2.0100e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		153.7834	153.7834	6.0900e-003			153.9112

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.6977					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3091	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0464	0.0551	0.6911	2.0100e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		153.7834	153.7834	6.0900e-003			153.9112
Total	0.0464	0.0551	0.6911	2.0100e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		153.7834	153.7834	6.0900e-003			153.9112

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	132.6913					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	132.9899	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.2258	0.2679	3.3631	9.7900e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		748.4124	748.4124	0.0296			749.0346
Total	0.2258	0.2679	3.3631	9.7900e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		748.4124	748.4124	0.0296			749.0346

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	132.6913					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
Total	132.9899	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.2258	0.2679	3.3631	9.7900e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		748.4124	748.4124	0.0296			749.0346
Total	0.2258	0.2679	3.3631	9.7900e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		748.4124	748.4124	0.0296			749.0346

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	3.4004	36.5182	40.9992	0.1637	7.5072	0.8174	8.3246	2.0691	0.7521	2.8212		14,769.5892	14,769.5892	0.1600			14,772.9484
Unmitigated	3.4004	36.5182	40.9992	0.1637	7.5072	0.8174	8.3246	2.0691	0.7521	2.8212		14,769.5892	14,769.5892	0.1600			14,772.9484

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	767.41	0.00	0.00	2,349,223	2,349,223
Total	767.41	0.00	0.00	2,349,223	2,349,223

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.519580	0.000000	0.000000	0.000000	0.000000	0.000000	0.240210	0.240210	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
NaturalGas Unmitigated	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Unrefrigerated Warehouse-No Pail	2615.9	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Other Non-Asphalt Surfaces	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		0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Paint	2.6159	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Other Non-Asphalt Surfaces	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
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		0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Unmitigated	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

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	2.9744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8800e-003	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Total	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8800e-003	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Total	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

LGA Realty Eastvale Industrial Development Project
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	446.17	1000sqft	10.24	446,170.00	0
Other Non-Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0
Parking Lot	447.00	Space	4.02	178,800.00	0
Parking Lot	5.30	Acre	5.30	230,868.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking = 319 vehicle stalls + 128 equiv stalls for trailer parking = 447 spaces

Secondary access + overflow parking = 5.3 acres

Retaining wall = 1,000 linear feet * ~10ft assumed disturbance width = 10 ksf

Construction Phase - default phase lengths multiplied by 1.75 to reflect construction schedule June 2016 - December 2018

Demolition - Demo square footage for concrete channel and retention basin estimated based on aerial imagery/approx ground coverage.

Grading - Default disturbance area of 132.5 acres used (accounts for multiple grading passes during construction). All cut/fill would be balanced on site.

Architectural Coating - Modeling also assumes a VOC of 100 g/L for interior paints pursuant to SCAQMD Rule 1113.

Vehicle Trips - Based on 766 total trips (398 passenger and 368 truck) from traffic study (1.72 trips/ksf/day)

Vehicle Emission Factors - Annual fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Vehicle Emission Factors - Summer fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Vehicle Emission Factors - Winter fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Area Coating - Modeling also assumes a VOC of 100 g/L for interior paints pursuant to SCAQMD Rule 1113.

Area Mitigation - Mitigation requiring use of low VOC paints with VOC content not exceeding 50 g/l for interior and exterior painting.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	300.00	525.00
tblConstructionPhase	NumDays	30.00	53.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	PhaseEndDate	1/2/2019	12/14/2018
tblConstructionPhase	PhaseStartDate	11/1/2018	10/15/2018
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleEF	HHD	0.04	0.24

tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	MHD	0.01	0.24

tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleTrips	ST_TR	2.59	0.00
tblVehicleTrips	SU_TR	2.59	0.00
tblVehicleTrips	WD_TR	2.59	1.72

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5526	74.9101	50.4808	0.1010	18.2675	3.5856	21.2074	9.9840	3.2988	12.6888	0.0000	9,334.4125	9,334.4125	1.9446	0.0000	9,375.2482
2017	5.3518	39.0498	47.4573	0.1010	4.9621	2.0150	6.9771	1.3342	1.8880	3.2223	0.0000	9,108.0997	9,108.0997	0.8290	0.0000	9,125.5079
2018	135.5573	34.8030	44.7600	0.1009	4.9619	1.7157	6.6776	1.3341	1.6086	2.9427	0.0000	8,892.5263	8,892.5263	0.8058	0.0000	8,909.4482
Total	147.4617	148.7630	142.6981	0.3029	28.1914	7.3163	34.8620	12.6524	6.7954	18.8538	0.0000	27,335.0385	27,335.0385	3.5793	0.0000	27,410.2043

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5526	74.9101	50.4808	0.1010	18.2675	3.5856	21.2074	9.9840	3.2988	12.6888	0.0000	9,334.4125	9,334.4125	1.9446	0.0000	9,375.2482
2017	5.3518	39.0498	47.4573	0.1010	4.9621	2.0150	6.9771	1.3342	1.8880	3.2223	0.0000	9,108.0997	9,108.0997	0.8290	0.0000	9,125.5079
2018	135.5573	34.8030	44.7600	0.1009	4.9619	1.7157	6.6776	1.3341	1.6086	2.9427	0.0000	8,892.5263	8,892.5263	0.8058	0.0000	8,909.4482
Total	147.4617	148.7630	142.6981	0.3029	28.1914	7.3163	34.8620	12.6524	6.7954	18.8538	0.0000	27,335.0385	27,335.0385	3.5793	0.0000	27,410.2043

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	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Energy	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Mobile	3.4996	37.6356	44.2377	0.1597	7.5072	0.8212	8.3284	2.0691	0.7556	2.8247		14,468.1843	14,468.1843	0.1618		14,471.5817
Total	23.6547	37.8930	44.5467	0.1612	7.5072	0.8410	8.3482	2.0691	0.7754	2.8445		14,776.1362	14,776.1362	0.1682	5.6400e-003	14,781.4179

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	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Energy	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Mobile	3.4996	37.6356	44.2377	0.1597	7.5072	0.8212	8.3284	2.0691	0.7556	2.8247		14,468.1843	14,468.1843	0.1618		14,471.5817
Total	21.2752	37.8930	44.5467	0.1612	7.5072	0.8410	8.3482	2.0691	0.7754	2.8445		14,776.1362	14,776.1362	0.1682	5.6400e-003	14,781.4179

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/4/2016	5/31/2016	5	20	
2	Site Preparation	Site Preparation	6/1/2016	6/24/2016	5	18	
3	Grading	Grading	6/25/2016	9/7/2016	5	53	
4	Building Construction	Building Construction	9/8/2016	9/12/2018	5	525	
5	Paving	Paving	9/13/2018	10/31/2018	5	35	
6	Architectural Coating	Architectural Coating	10/15/2018	12/14/2018	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 132.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 702,690; Non-Residential Outdoor: 234,230 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	309.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	364.00	142.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	73.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

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					3.3675	0.0000	3.3675	0.5099	0.0000	0.5099			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	4.2876	45.6559	35.0303	0.0399	3.3675	2.2921	5.6596	0.5099	2.1365	2.6464		4,089.284 1	4,089.284 1	1.1121		4,112.637 4

3.2 Demolition - 2016

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	0.2408	4.2500	2.8749	0.0110	0.2695	0.0751	0.3446	0.0738	0.0691	0.1429		1,106.7780	1,106.7780	7.1200e-003		1,106.9275
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	0.0548	0.0723	0.7330	1.8400e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		152.0980	152.0980	7.1800e-003		152.2488
Total	0.2956	4.3223	3.6078	0.0128	0.4372	0.0761	0.5133	0.1183	0.0700	0.1883		1,258.8760	1,258.8760	0.0143		1,259.1763

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3675	0.0000	3.3675	0.5099	0.0000	0.5099			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121		4,112.6374
Total	4.2876	45.6559	35.0303	0.0399	3.3675	2.2921	5.6596	0.5099	2.1365	2.6464	0.0000	4,089.2841	4,089.2841	1.1121		4,112.6374

3.2 Demolition - 2016

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	0.2408	4.2500	2.8749	0.0110	0.2695	0.0751	0.3446	0.0738	0.0691	0.1429		1,106.7780	1,106.7780	7.1200e-003		1,106.9275
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	0.0548	0.0723	0.7330	1.8400e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		152.0980	152.0980	7.1800e-003		152.2488
Total	0.2956	4.3223	3.6078	0.0128	0.4372	0.0761	0.5133	0.1183	0.0700	0.1883		1,258.8760	1,258.8760	0.0143		1,259.1763

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

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	0.0658	0.0868	0.8796	2.2000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		182.5176	182.5176	8.6100e-003			182.6986
Total	0.0658	0.0868	0.8796	2.2000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		182.5176	182.5176	8.6100e-003			182.6986

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

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	0.0658	0.0868	0.8796	2.2000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		182.5176	182.5176	8.6100e-003		182.6986
Total	0.0658	0.0868	0.8796	2.2000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		182.5176	182.5176	8.6100e-003		182.6986

3.4 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

3.4 Grading - 2016

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	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003			202.9984
Total	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003			202.9984

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350			6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350			6,455.6154

3.4 Grading - 2016

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	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003			202.9984
Total	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003			202.9984

3.5 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

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	1.1770	12.2153	14.1874	0.0297	0.8934	0.2334	1.1268	0.2552	0.2146	0.4698		2,974.2138	2,974.2138	0.0202			2,974.6375
Worker	1.3305	1.7544	17.7868	0.0446	4.0687	0.0254	4.0941	1.0790	0.0234	1.1024		3,690.9124	3,690.9124	0.1742			3,694.5706
Total	2.5075	13.9697	31.9742	0.0742	4.9621	0.2588	5.2209	1.3342	0.2380	1.5722		6,665.1261	6,665.1261	0.1944			6,669.2082

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

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	1.1770	12.2153	14.1874	0.0297	0.8934	0.2334	1.1268	0.2552	0.2146	0.4698		2,974.2138	2,974.2138	0.0202			2,974.6375
Worker	1.3305	1.7544	17.7868	0.0446	4.0687	0.0254	4.0941	1.0790	0.0234	1.1024		3,690.9124	3,690.9124	0.1742			3,694.5706
Total	2.5075	13.9697	31.9742	0.0742	4.9621	0.2588	5.2209	1.3342	0.2380	1.5722		6,665.1261	6,665.1261	0.1944			6,669.2082

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

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	1.0608	11.0715	13.4009	0.0296	0.8934	0.2090	1.1025	0.2552	0.1923	0.4475		2,923.913 2	2,923.913 2	0.0195			2,924.322 3
Worker	1.1886	1.5727	15.9272	0.0446	4.0687	0.0247	4.0934	1.0790	0.0228	1.1019		3,544.381 2	3,544.381 2	0.1598			3,547.736 6
Total	2.2494	12.6442	29.3282	0.0741	4.9621	0.2338	5.1959	1.3342	0.2151	1.5493		6,468.294 4	6,468.294 4	0.1793			6,472.058 9

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805 3	2,639.805 3	0.6497			2,653.449 0
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805 3	2,639.805 3	0.6497			2,653.449 0

3.5 Building Construction - 2017

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	1.0608	11.0715	13.4009	0.0296	0.8934	0.2090	1.1025	0.2552	0.1923	0.4475		2,923.913 2	2,923.913 2	0.0195			2,924.322 3
Worker	1.1886	1.5727	15.9272	0.0446	4.0687	0.0247	4.0934	1.0790	0.0228	1.1019		3,544.381 2	3,544.381 2	0.1598			3,547.736 6
Total	2.2494	12.6442	29.3282	0.0741	4.9621	0.2338	5.1959	1.3342	0.2151	1.5493		6,468.294 4	6,468.294 4	0.1793			6,472.058 9

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.939 0	2,609.939 0	0.6387			2,623.351 7
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.939 0	2,609.939 0	0.6387			2,623.351 7

3.5 Building Construction - 2018

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	0.9807	10.1217	12.8637	0.0295	0.8932	0.1971	1.0903	0.2551	0.1813	0.4364		2,872.9675	2,872.9675	0.0194			2,873.3739
Worker	1.0685	1.4205	14.3636	0.0445	4.0687	0.0244	4.0930	1.0790	0.0226	1.1016		3,409.6198	3,409.6198	0.1478			3,412.7226
Total	2.0492	11.5422	27.2273	0.0741	4.9619	0.2214	5.1833	1.3341	0.2038	1.5380		6,282.5873	6,282.5873	0.1671			6,286.0965

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.9807	10.1217	12.8637	0.0295	0.8932	0.1971	1.0903	0.2551	0.1813	0.4364		2,872.9675	2,872.9675	0.0194			2,873.3739
Worker	1.0685	1.4205	14.3636	0.0445	4.0687	0.0244	4.0930	1.0790	0.0226	1.1016		3,409.6198	3,409.6198	0.1478			3,412.7226
Total	2.0492	11.5422	27.2273	0.0741	4.9619	0.2214	5.1833	1.3341	0.2038	1.5380		6,282.5873	6,282.5873	0.1671			6,286.0965

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.6977					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3091	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0440	0.0585	0.5919	1.8400e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		140.5063	140.5063	6.0900e-003			140.6342
Total	0.0440	0.0585	0.5919	1.8400e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		140.5063	140.5063	6.0900e-003			140.6342

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.6977					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3091	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0440	0.0585	0.5919	1.8400e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		140.5063	140.5063	6.0900e-003		140.6342
Total	0.0440	0.0585	0.5919	1.8400e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		140.5063	140.5063	6.0900e-003		140.6342

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	132.6913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	132.9899	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

3.7 Architectural Coating - 2018

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	0.2143	0.2849	2.8806	8.9300e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		683.7974	683.7974	0.0296			684.4196
Total	0.2143	0.2849	2.8806	8.9300e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		683.7974	683.7974	0.0296			684.4196

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	132.6913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
Total	132.9899	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.2143	0.2849	2.8806	8.9300e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		683.7974	683.7974	0.0296		684.4196
Total	0.2143	0.2849	2.8806	8.9300e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		683.7974	683.7974	0.0296		684.4196

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4996	37.6356	44.2377	0.1597	7.5072	0.8212	8.3284	2.0691	0.7556	2.8247		14,468.18 43	14,468.18 43	0.1618		14,471.58 17
Unmitigated	3.4996	37.6356	44.2377	0.1597	7.5072	0.8212	8.3284	2.0691	0.7556	2.8247		14,468.18 43	14,468.18 43	0.1618		14,471.58 17

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	767.41	0.00	0.00	2,349,223	2,349,223
Total	767.41	0.00	0.00	2,349,223	2,349,223

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.519580	0.000000	0.000000	0.000000	0.000000	0.000000	0.240210	0.240210	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
NaturalGas Unmitigated	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Unrefrigerated Warehouse-No Pail	2615.9	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Other Non-Asphalt Surfaces	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		0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
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
Unrefrigerated Warehouse-No Paint	2.6159	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260	

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Unmitigated	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

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	2.9744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8800e-003	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Total	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8800e-003	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Total	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

LGA Realty Eastvale Industrial Development Project
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	446.17	1000sqft	10.24	446,170.00	0
Other Non-Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0
Parking Lot	447.00	Space	4.02	178,800.00	0
Parking Lot	5.30	Acre	5.30	230,868.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking = 319 vehicle stalls + 128 equiv stalls for trailer parking = 447 spaces

Secondary access + overflow parking = 5.3 acres

Retaining wall = 1,000 linear feet * ~10ft assumed disturbance width = 10 ksf

Construction Phase - default phase lengths multiplied by 1.75 to reflect construction schedule June 2016 - December 2018

Demolition - Demo square footage for concrete channel and retention basin estimated based on aerial imagery/approx ground coverage.

Grading - Default disturbance area of 132.5 acres used (accounts for multiple grading passes during construction). All cut/fill would be balanced on site.

Architectural Coating - Modeling also assumes a VOC of 100 g/L for interior paints pursuant to SCAQMD Rule 1113. Mitigation requiring use of low VOC paints with VOC content not exceeding 50 g/l for interior and exterior painting.

Vehicle Trips - Based on 766 total trips (398 passenger and 368 truck) from traffic study (1.72 trips/ksf/day)

Vehicle Emission Factors - Annual fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Vehicle Emission Factors - Summer fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Vehicle Emission Factors - Winter fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Area Coating - Modeling also assumes a VOC of 100 g/L for interior paints pursuant to SCAQMD Rule 1113.

Area Mitigation - Mitigation requiring use of low VOC paints with VOC content not exceeding 50 g/l for interior and exterior painting.

Energy Mitigation - Mitigation requiring 15% exceedance of Title 24 energy efficiency standards.

Water Mitigation - Mitigation requiring use of reclaimed water for outdoor applications, water-efficient irrigation systems for landscaping, and low flow fixtures for all faucets, toilets, and showers.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	50
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	300.00	525.00
tblConstructionPhase	NumDays	30.00	53.00
tblConstructionPhase	NumDays	20.00	35.00

tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	PhaseEndDate	1/2/2019	12/14/2018
tblConstructionPhase	PhaseStartDate	11/1/2018	10/15/2018
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MDV	0.17	0.00

tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleTrips	ST_TR	2.59	0.00
tblVehicleTrips	SU_TR	2.59	0.00
tblVehicleTrips	WD_TR	2.59	1.72

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5561	74.9042	51.6272	0.1055	18.2675	3.5856	21.2074	9.9840	3.2988	12.6888	0.0000	9,708.3420	9,708.3420	1.9446	0.0000	9,749.1777
2017	5.3482	38.6914	48.3145	0.1055	4.9621	2.0132	6.9753	1.3342	1.8864	3.2207	0.0000	9,468.3141	9,468.3141	0.8283	0.0000	9,485.7082
2018	51.1313	34.4841	45.3865	0.1054	4.9619	1.7141	6.6760	1.3341	1.6071	2.9413	0.0000	9,239.9467	9,239.9467	0.8051	0.0000	9,256.8542
Total	63.0356	148.0797	145.3282	0.3164	28.1914	7.3130	34.8587	12.6524	6.7923	18.8507	0.0000	28,416.6028	28,416.6028	3.5780	0.0000	28,491.7401

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5561	74.9042	51.6272	0.1055	18.2675	3.5856	21.2074	9.9840	3.2988	12.6888	0.0000	9,708.3420	9,708.3420	1.9446	0.0000	9,749.1777
2017	5.3482	38.6914	48.3145	0.1055	4.9621	2.0132	6.9753	1.3342	1.8864	3.2207	0.0000	9,468.3141	9,468.3141	0.8283	0.0000	9,485.7082
2018	51.1313	34.4841	45.3865	0.1054	4.9619	1.7141	6.6760	1.3341	1.6071	2.9413	0.0000	9,239.9467	9,239.9467	0.8051	0.0000	9,256.8542
Total	63.0356	148.0797	145.3282	0.3164	28.1914	7.3130	34.8587	12.6524	6.7923	18.8507	0.0000	28,416.6028	28,416.6028	3.5780	0.0000	28,491.7401

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	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Energy	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Mobile	3.4004	36.5182	40.9992	0.1637	7.5072	0.8174	8.3246	2.0691	0.7521	2.8212		14,769.5892	14,769.5892	0.1600		14,772.9484
Total	23.5555	36.7755	41.3083	0.1652	7.5072	0.8372	8.3445	2.0691	0.7719	2.8411		15,077.5410	15,077.5410	0.1664	5.6400e-003	15,082.7846

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	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Energy	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2372	262.2372	5.0300e-003	4.8100e-003	263.8332
Mobile	3.4004	36.5182	40.9992	0.1637	7.5072	0.8174	8.3246	2.0691	0.7521	2.8212		14,769.5892	14,769.5892	0.1600		14,772.9484
Total	21.1718	36.7376	41.2764	0.1650	7.5072	0.8343	8.3416	2.0691	0.7690	2.8382		15,032.0252	15,032.0252	0.1655	4.8100e-003	15,036.9917

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.12	0.10	0.08	0.14	0.00	0.34	0.03	0.00	0.37	0.10	0.00	0.30	0.30	0.52	14.72	0.30

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	5/4/2016	5/31/2016	5	20	
2	Site Preparation	Site Preparation	6/1/2016	6/24/2016	5	18	
3	Grading	Grading	6/25/2016	9/7/2016	5	53	
4	Building Construction	Building Construction	9/8/2016	9/12/2018	5	525	
5	Paving	Paving	9/13/2018	10/31/2018	5	35	
6	Architectural Coating	Architectural Coating	10/15/2018	12/14/2018	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 132.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 702,690; Non-Residential Outdoor: 234,230 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	309.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	364.00	142.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	73.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

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					3.3675	0.0000	3.3675	0.5099	0.0000	0.5099			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	4.2876	45.6559	35.0303	0.0399	3.3675	2.2921	5.6596	0.5099	2.1365	2.6464		4,089.284 1	4,089.284 1	1.1121		4,112.637 4

3.2 Demolition - 2016

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	0.2314	4.0940	2.6136	0.0110	0.2695	0.0749	0.3444	0.0738	0.0689	0.1427		1,109.5080	1,109.5080	7.0100e-003		1,109.6552
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	0.0575	0.0679	0.8507	2.0100e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		166.4372	166.4372	7.1800e-003		166.5880
Total	0.2888	4.1619	3.4642	0.0130	0.4372	0.0760	0.5132	0.1183	0.0699	0.1882		1,275.9453	1,275.9453	0.0142		1,276.2432

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3675	0.0000	3.3675	0.5099	0.0000	0.5099			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121		4,112.6374
Total	4.2876	45.6559	35.0303	0.0399	3.3675	2.2921	5.6596	0.5099	2.1365	2.6464	0.0000	4,089.2841	4,089.2841	1.1121		4,112.6374

3.2 Demolition - 2016

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	0.2314	4.0940	2.6136	0.0110	0.2695	0.0749	0.3444	0.0738	0.0689	0.1427		1,109.5080	1,109.5080	7.0100e-003		1,109.6552
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	0.0575	0.0679	0.8507	2.0100e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		166.4372	166.4372	7.1800e-003		166.5880
Total	0.2888	4.1619	3.4642	0.0130	0.4372	0.0760	0.5132	0.1183	0.0699	0.1882		1,275.9453	1,275.9453	0.0142		1,276.2432

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

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	0.0690	0.0814	1.0208	2.4100e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		199.7247	199.7247	8.6100e-003			199.9056
Total	0.0690	0.0814	1.0208	2.4100e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		199.7247	199.7247	8.6100e-003			199.9056

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544

3.3 Site Preparation - 2016

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	0.0690	0.0814	1.0208	2.4100e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		199.7247	199.7247	8.6100e-003		199.9056
Total	0.0690	0.0814	1.0208	2.4100e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		199.7247	199.7247	8.6100e-003		199.9056

3.4 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

3.4 Grading - 2016

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	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		221.9163	221.9163	9.5700e-003		222.1173
Total	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		221.9163	221.9163	9.5700e-003		222.1173

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

3.4 Grading - 2016

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	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		221.9163	221.9163	9.5700e-003			222.1173
Total	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		221.9163	221.9163	9.5700e-003			222.1173

3.5 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

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	1.1043	11.9160	12.4779	0.0299	0.8934	0.2313	1.1247	0.2552	0.2127	0.4679		3,000.1785	3,000.1785	0.0195			3,000.5885
Worker	1.3947	1.6469	20.6427	0.0488	4.0687	0.0254	4.0941	1.0790	0.0234	1.1024		4,038.8771	4,038.8771	0.1742			4,042.5354
Total	2.4990	13.5629	33.1206	0.0787	4.9621	0.2567	5.2188	1.3342	0.2361	1.5703		7,039.0556	7,039.0556	0.1937			7,043.1238

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

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	1.1043	11.9160	12.4779	0.0299	0.8934	0.2313	1.1247	0.2552	0.2127	0.4679		3,000.1785	3,000.1785	0.0195			3,000.5885
Worker	1.3947	1.6469	20.6427	0.0488	4.0687	0.0254	4.0941	1.0790	0.0234	1.1024		4,038.8771	4,038.8771	0.1742			4,042.5354
Total	2.4990	13.5629	33.1206	0.0787	4.9621	0.2567	5.2188	1.3342	0.2361	1.5703		7,039.0556	7,039.0556	0.1937			7,043.1238

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

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	0.9964	10.8080	11.6466	0.0298	0.8934	0.2073	1.1007	0.2552	0.1906	0.4458		2,949.5199	2,949.5199	0.0188			2,949.9149
Worker	1.2494	1.4777	18.5388	0.0488	4.0687	0.0247	4.0934	1.0790	0.0228	1.1019		3,878.9889	3,878.9889	0.1598			3,882.3443
Total	2.2458	12.2857	30.1853	0.0787	4.9621	0.2320	5.1941	1.3342	0.2135	1.5477		6,828.5088	6,828.5088	0.1786			6,832.2592

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

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	0.9964	10.8080	11.6466	0.0298	0.8934	0.2073	1.1007	0.2552	0.1906	0.4458		2,949.5199	2,949.5199	0.0188			2,949.9149
Worker	1.2494	1.4777	18.5388	0.0488	4.0687	0.0247	4.0934	1.0790	0.0228	1.1019		3,878.9889	3,878.9889	0.1598			3,882.3443
Total	2.2458	12.2857	30.1853	0.0787	4.9621	0.2320	5.1941	1.3342	0.2135	1.5477		6,828.5088	6,828.5088	0.1786			6,832.2592

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.9224	9.8873	11.0844	0.0298	0.8932	0.1955	1.0887	0.2551	0.1798	0.4349		2,898.198 2	2,898.198 2	0.0187			2,898.590 2
Worker	1.1261	1.3359	16.7694	0.0488	4.0687	0.0244	4.0930	1.0790	0.0226	1.1016		3,731.809 5	3,731.809 5	0.1478			3,734.912 3
Total	2.0485	11.2232	27.8538	0.0786	4.9619	0.2198	5.1817	1.3341	0.2024	1.5365		6,630.007 7	6,630.007 7	0.1664			6,633.502 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.938 9	2,609.938 9	0.6387			2,623.351 7
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.938 9	2,609.938 9	0.6387			2,623.351 7

3.5 Building Construction - 2018

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	0.9224	9.8873	11.0844	0.0298	0.8932	0.1955	1.0887	0.2551	0.1798	0.4349		2,898.198 2	2,898.198 2	0.0187			2,898.590 2
Worker	1.1261	1.3359	16.7694	0.0488	4.0687	0.0244	4.0930	1.0790	0.0226	1.1016		3,731.809 5	3,731.809 5	0.1478			3,734.912 3
Total	2.0485	11.2232	27.8538	0.0786	4.9619	0.2198	5.1817	1.3341	0.2024	1.5365		6,630.007 7	6,630.007 7	0.1664			6,633.502 5

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.269 5	2,245.269 5	0.6990			2,259.948 1
Paving	0.6977					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3091	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.269 5	2,245.269 5	0.6990			2,259.948 1

3.6 Paving - 2018

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	0.0464	0.0551	0.6911	2.0100e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		153.7834	153.7834	6.0900e-003			153.9112
Total	0.0464	0.0551	0.6911	2.0100e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		153.7834	153.7834	6.0900e-003			153.9112

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.6977					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3091	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0464	0.0551	0.6911	2.0100e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		153.7834	153.7834	6.0900e-003			153.9112
Total	0.0464	0.0551	0.6911	2.0100e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		153.7834	153.7834	6.0900e-003			153.9112

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	48.2514					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	48.5500	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.2258	0.2679	3.3631	9.7900e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		748.4124	748.4124	0.0296			749.0346
Total	0.2258	0.2679	3.3631	9.7900e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		748.4124	748.4124	0.0296			749.0346

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	48.2514					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
Total	48.5500	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.2258	0.2679	3.3631	9.7900e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		748.4124	748.4124	0.0296			749.0346
Total	0.2258	0.2679	3.3631	9.7900e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		748.4124	748.4124	0.0296			749.0346

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	3.4004	36.5182	40.9992	0.1637	7.5072	0.8174	8.3246	2.0691	0.7521	2.8212		14,769.5892	14,769.5892	0.1600			14,772.9484
Unmitigated	3.4004	36.5182	40.9992	0.1637	7.5072	0.8174	8.3246	2.0691	0.7521	2.8212		14,769.5892	14,769.5892	0.1600			14,772.9484

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	767.41	0.00	0.00	2,349,223	2,349,223
Total	767.41	0.00	0.00	2,349,223	2,349,223

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.519580	0.000000	0.000000	0.000000	0.000000	0.000000	0.240210	0.240210	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~2.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2372	262.2372	5.0300e-003	4.8100e-003	263.8332
NaturalGas Unmitigated	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Unrefrigerated Warehouse-No Pail	2615.9	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Other Non-Asphalt Surfaces	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		0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Paint	2.22902	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2372	262.2372	5.0300e-003	4.8100e-003	263.8332
Other Non-Asphalt Surfaces	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
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		0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2372	262.2372	5.0300e-003	4.8100e-003	263.8332

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Unmitigated	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

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	2.9744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8800e-003	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Total	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8800e-003	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Total	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

7.0 Water Detail

7.1 Mitigation Measures Water

- Use Reclaimed Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

LGA Realty Eastvale Industrial Development Project
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	446.17	1000sqft	10.24	446,170.00	0
Other Non-Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0
Parking Lot	447.00	Space	4.02	178,800.00	0
Parking Lot	5.30	Acre	5.30	230,868.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking = 319 vehicle stalls + 128 equiv stalls for trailer parking = 447 spaces

Secondary access + overflow parking = 5.3 acres

Retaining wall = 1,000 linear feet * ~10ft assumed disturbance width = 10 ksf

Construction Phase - default phase lengths multiplied by 1.75 to reflect construction schedule June 2016 - December 2018

Demolition - Demo square footage for concrete channel and retention basin estimated based on aerial imagery/approx ground coverage.

Grading - Default disturbance area of 132.5 acres used (accounts for multiple grading passes during construction). All cut/fill would be balanced on site.

Architectural Coating - Modeling also assumes a VOC of 100 g/L for interior paints pursuant to SCAQMD Rule 1113. Mitigation requiring use of low VOC paints with VOC content not exceeding 50 g/l for interior and exterior painting.

Vehicle Trips - Based on 766 total trips (398 passenger and 368 truck) from traffic study (1.72 trips/ksf/day)

Vehicle Emission Factors - Annual fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Vehicle Emission Factors - Summer fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Vehicle Emission Factors - Winter fleet mix edited to match traffic study (51.958% passenger cars, 48.042 trucks (assumed 50% MHD and 50% HHD)

Area Coating - Modeling also assumes a VOC of 100 g/L for interior paints pursuant to SCAQMD Rule 1113.

Area Mitigation - Mitigation requiring use of low VOC paints with VOC content not exceeding 50 g/l for interior and exterior painting.

Energy Mitigation - Mitigation requiring 15% exceedance of Title 24 energy efficiency standards.

Water Mitigation - Mitigation requiring use of reclaimed water for outdoor applications, water-efficient irrigation systems for landscaping, and low flow fixtures for all faucets, toilets, and showers.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	50
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	300.00	525.00
tblConstructionPhase	NumDays	30.00	53.00
tblConstructionPhase	NumDays	20.00	35.00

tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	PhaseEndDate	1/2/2019	12/14/2018
tblConstructionPhase	PhaseStartDate	11/1/2018	10/15/2018
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	HHD	0.04	0.24
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD1	0.05	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	LHD2	7.4300e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MCY	6.4950e-003	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MDV	0.17	0.00

tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MH	3.2600e-003	0.00
tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	MHD	0.01	0.24
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	OBUS	9.1700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	SBUS	8.4700e-004	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleEF	UBUS	1.0550e-003	0.00
tblVehicleTrips	ST_TR	2.59	0.00
tblVehicleTrips	SU_TR	2.59	0.00
tblVehicleTrips	WD_TR	2.59	1.72

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5526	74.9101	50.4808	0.1010	18.2675	3.5856	21.2074	9.9840	3.2988	12.6888	0.0000	9,334.4125	9,334.4125	1.9446	0.0000	9,375.2482
2017	5.3518	39.0498	47.4573	0.1010	4.9621	2.0150	6.9771	1.3342	1.8880	3.2223	0.0000	9,108.0997	9,108.0997	0.8290	0.0000	9,125.5079
2018	51.1174	34.8030	44.7600	0.1009	4.9619	1.7157	6.6776	1.3341	1.6086	2.9427	0.0000	8,892.5263	8,892.5263	0.8058	0.0000	8,909.4482
Total	63.0218	148.7630	142.6981	0.3029	28.1914	7.3163	34.8620	12.6524	6.7954	18.8538	0.0000	27,335.0385	27,335.0385	3.5793	0.0000	27,410.2043

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5526	74.9101	50.4808	0.1010	18.2675	3.5856	21.2074	9.9840	3.2988	12.6888	0.0000	9,334.4125	9,334.4125	1.9446	0.0000	9,375.2482
2017	5.3518	39.0498	47.4573	0.1010	4.9621	2.0150	6.9771	1.3342	1.8880	3.2223	0.0000	9,108.0997	9,108.0997	0.8290	0.0000	9,125.5079
2018	51.1174	34.8030	44.7600	0.1009	4.9619	1.7157	6.6776	1.3341	1.6086	2.9427	0.0000	8,892.5263	8,892.5263	0.8058	0.0000	8,909.4482
Total	63.0218	148.7630	142.6981	0.3029	28.1914	7.3163	34.8620	12.6524	6.7954	18.8538	0.0000	27,335.0385	27,335.0385	3.5793	0.0000	27,410.2043

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	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Energy	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Mobile	3.4996	37.6356	44.2377	0.1597	7.5072	0.8212	8.3284	2.0691	0.7556	2.8247		14,468.1843	14,468.1843	0.1618		14,471.5817
Total	23.6547	37.8930	44.5467	0.1612	7.5072	0.8410	8.3482	2.0691	0.7754	2.8445		14,776.1362	14,776.1362	0.1682	5.6400e-003	14,781.4179

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	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Energy	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2372	262.2372	5.0300e-003	4.8100e-003	263.8332
Mobile	3.4996	37.6356	44.2377	0.1597	7.5072	0.8212	8.3284	2.0691	0.7556	2.8247		14,468.1843	14,468.1843	0.1618		14,471.5817
Total	21.2710	37.8550	44.5149	0.1610	7.5072	0.8381	8.3453	2.0691	0.7725	2.8417		14,730.6203	14,730.6203	0.1674	4.8100e-003	14,735.6250

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.08	0.10	0.07	0.14	0.00	0.34	0.03	0.00	0.37	0.10	0.00	0.31	0.31	0.52	14.72	0.31

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	5/4/2016	5/31/2016	5	20	
2	Site Preparation	Site Preparation	6/1/2016	6/24/2016	5	18	
3	Grading	Grading	6/25/2016	9/7/2016	5	53	
4	Building Construction	Building Construction	9/8/2016	9/12/2018	5	525	
5	Paving	Paving	9/13/2018	10/31/2018	5	35	
6	Architectural Coating	Architectural Coating	10/15/2018	12/14/2018	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 132.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 702,690; Non-Residential Outdoor: 234,230 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	309.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	364.00	142.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	73.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

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					3.3675	0.0000	3.3675	0.5099	0.0000	0.5099			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	4.2876	45.6559	35.0303	0.0399	3.3675	2.2921	5.6596	0.5099	2.1365	2.6464		4,089.284 1	4,089.284 1	1.1121		4,112.637 4

3.2 Demolition - 2016

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	0.2408	4.2500	2.8749	0.0110	0.2695	0.0751	0.3446	0.0738	0.0691	0.1429		1,106.7780	1,106.7780	7.1200e-003		1,106.9275
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	0.0548	0.0723	0.7330	1.8400e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		152.0980	152.0980	7.1800e-003		152.2488
Total	0.2956	4.3223	3.6078	0.0128	0.4372	0.0761	0.5133	0.1183	0.0700	0.1883		1,258.8760	1,258.8760	0.0143		1,259.1763

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3675	0.0000	3.3675	0.5099	0.0000	0.5099			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121		4,112.6374
Total	4.2876	45.6559	35.0303	0.0399	3.3675	2.2921	5.6596	0.5099	2.1365	2.6464	0.0000	4,089.2841	4,089.2841	1.1121		4,112.6374

3.2 Demolition - 2016

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	0.2408	4.2500	2.8749	0.0110	0.2695	0.0751	0.3446	0.0738	0.0691	0.1429		1,106.7780	1,106.7780	7.1200e-003		1,106.9275
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	0.0548	0.0723	0.7330	1.8400e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		152.0980	152.0980	7.1800e-003		152.2488
Total	0.2956	4.3223	3.6078	0.0128	0.4372	0.0761	0.5133	0.1183	0.0700	0.1883		1,258.8760	1,258.8760	0.0143		1,259.1763

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

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	0.0658	0.0868	0.8796	2.2000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		182.5176	182.5176	8.6100e-003			182.6986
Total	0.0658	0.0868	0.8796	2.2000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		182.5176	182.5176	8.6100e-003			182.6986

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544

3.3 Site Preparation - 2016

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	0.0658	0.0868	0.8796	2.2000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		182.5176	182.5176	8.6100e-003			182.6986
Total	0.0658	0.0868	0.8796	2.2000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		182.5176	182.5176	8.6100e-003			182.6986

3.4 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350			6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350			6,455.6154

3.4 Grading - 2016

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	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003			202.9984
Total	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003			202.9984

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000	
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350			6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350			6,455.6154

3.4 Grading - 2016

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	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003			202.9984
Total	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003			202.9984

3.5 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

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	1.1770	12.2153	14.1874	0.0297	0.8934	0.2334	1.1268	0.2552	0.2146	0.4698		2,974.2138	2,974.2138	0.0202			2,974.6375
Worker	1.3305	1.7544	17.7868	0.0446	4.0687	0.0254	4.0941	1.0790	0.0234	1.1024		3,690.9124	3,690.9124	0.1742			3,694.5706
Total	2.5075	13.9697	31.9742	0.0742	4.9621	0.2588	5.2209	1.3342	0.2380	1.5722		6,665.1261	6,665.1261	0.1944			6,669.2082

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

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	1.1770	12.2153	14.1874	0.0297	0.8934	0.2334	1.1268	0.2552	0.2146	0.4698		2,974.2138	2,974.2138	0.0202			2,974.6375
Worker	1.3305	1.7544	17.7868	0.0446	4.0687	0.0254	4.0941	1.0790	0.0234	1.1024		3,690.9124	3,690.9124	0.1742			3,694.5706
Total	2.5075	13.9697	31.9742	0.0742	4.9621	0.2588	5.2209	1.3342	0.2380	1.5722		6,665.1261	6,665.1261	0.1944			6,669.2082

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

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	1.0608	11.0715	13.4009	0.0296	0.8934	0.2090	1.1025	0.2552	0.1923	0.4475		2,923.913 2	2,923.913 2	0.0195			2,924.322 3
Worker	1.1886	1.5727	15.9272	0.0446	4.0687	0.0247	4.0934	1.0790	0.0228	1.1019		3,544.381 2	3,544.381 2	0.1598			3,547.736 6
Total	2.2494	12.6442	29.3282	0.0741	4.9621	0.2338	5.1959	1.3342	0.2151	1.5493		6,468.294 4	6,468.294 4	0.1793			6,472.058 9

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805 3	2,639.805 3	0.6497			2,653.449 0
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805 3	2,639.805 3	0.6497			2,653.449 0

3.5 Building Construction - 2017

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	1.0608	11.0715	13.4009	0.0296	0.8934	0.2090	1.1025	0.2552	0.1923	0.4475		2,923.913 2	2,923.913 2	0.0195			2,924.322 3
Worker	1.1886	1.5727	15.9272	0.0446	4.0687	0.0247	4.0934	1.0790	0.0228	1.1019		3,544.381 2	3,544.381 2	0.1598			3,547.736 6
Total	2.2494	12.6442	29.3282	0.0741	4.9621	0.2338	5.1959	1.3342	0.2151	1.5493		6,468.294 4	6,468.294 4	0.1793			6,472.058 9

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.939 0	2,609.939 0	0.6387			2,623.351 7
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.939 0	2,609.939 0	0.6387			2,623.351 7

3.5 Building Construction - 2018

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	0.9807	10.1217	12.8637	0.0295	0.8932	0.1971	1.0903	0.2551	0.1813	0.4364		2,872.9675	2,872.9675	0.0194			2,873.3739
Worker	1.0685	1.4205	14.3636	0.0445	4.0687	0.0244	4.0930	1.0790	0.0226	1.1016		3,409.6198	3,409.6198	0.1478			3,412.7226
Total	2.0492	11.5422	27.2273	0.0741	4.9619	0.2214	5.1833	1.3341	0.2038	1.5380		6,282.5873	6,282.5873	0.1671			6,286.0965

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.9807	10.1217	12.8637	0.0295	0.8932	0.1971	1.0903	0.2551	0.1813	0.4364		2,872.9675	2,872.9675	0.0194			2,873.3739
Worker	1.0685	1.4205	14.3636	0.0445	4.0687	0.0244	4.0930	1.0790	0.0226	1.1016		3,409.6198	3,409.6198	0.1478			3,412.7226
Total	2.0492	11.5422	27.2273	0.0741	4.9619	0.2214	5.1833	1.3341	0.2038	1.5380		6,282.5873	6,282.5873	0.1671			6,286.0965

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.6977					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3091	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0440	0.0585	0.5919	1.8400e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		140.5063	140.5063	6.0900e-003			140.6342
Total	0.0440	0.0585	0.5919	1.8400e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		140.5063	140.5063	6.0900e-003			140.6342

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.6977					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3091	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0440	0.0585	0.5919	1.8400e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		140.5063	140.5063	6.0900e-003			140.6342
Total	0.0440	0.0585	0.5919	1.8400e-003	0.1677	1.0000e-003	0.1687	0.0445	9.3000e-004	0.0454		140.5063	140.5063	6.0900e-003			140.6342

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	48.2514					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	48.5500	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.2143	0.2849	2.8806	8.9300e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		683.7974	683.7974	0.0296			684.4196
Total	0.2143	0.2849	2.8806	8.9300e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		683.7974	683.7974	0.0296			684.4196

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	48.2514					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
Total	48.5500	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.2143	0.2849	2.8806	8.9300e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		683.7974	683.7974	0.0296		684.4196
Total	0.2143	0.2849	2.8806	8.9300e-003	0.8160	4.8900e-003	0.8209	0.2164	4.5200e-003	0.2209		683.7974	683.7974	0.0296		684.4196

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4996	37.6356	44.2377	0.1597	7.5072	0.8212	8.3284	2.0691	0.7556	2.8247		14,468.1843	14,468.1843	0.1618		14,471.5817
Unmitigated	3.4996	37.6356	44.2377	0.1597	7.5072	0.8212	8.3284	2.0691	0.7556	2.8247		14,468.1843	14,468.1843	0.1618		14,471.5817

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	767.41	0.00	0.00	2,349,223	2,349,223
Total	767.41	0.00	0.00	2,349,223	2,349,223

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.519580	0.000000	0.000000	0.000000	0.000000	0.000000	0.240210	0.240210	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2372	262.2372	5.0300e-003	4.8100e-003	263.8332
NaturalGas Unmitigated	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Unrefrigerated Warehouse-No Pail	2615.9	0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260
Other Non-Asphalt Surfaces	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		0.0282	0.2565	0.2154	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.7530	307.7530	5.9000e-003	5.6400e-003	309.6260

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
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
Unrefrigerated Warehouse-No Paint	2.22902	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2372	262.2372	5.0300e-003	4.8100e-003	263.8332	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2372	262.2372	5.0300e-003	4.8100e-003	263.8332	

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Unmitigated	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

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	2.9744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8800e-003	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Total	20.1269	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8800e-003	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101
Total	17.7474	8.7000e-004	0.0937	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.1988	0.1988	5.4000e-004		0.2101

7.0 Water Detail

7.1 Mitigation Measures Water

- Use Reclaimed Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Derivation of Emission Rates for Project Idling Emissions

Site Width 68.0 feet Truck length
 Site Length 630 feet Dock length
 Time Frame 11 hrs 6 am to 5 pm

	Emissions per Area Segment					
	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grms/day	8.4	5.9	0.6	21.6	0.0	43.3
grms/hr	0.4	0.2	0.0	0.9	0.0	1.8
grms/sec *	9.733E-05	6.812E-05	6.469E-06	2.503E-04	0.000E+00	5.009E-04
lbs/year	6.76664	4.73641	0.44976	17.40471	0.00000	34.82835
lbs/hour	0.00077	0.00054	0.00005	0.00199	0.00000	0.00398

* Emission factor to be multiplied by X/Q to obtain concentration.

Derivation of Emission Rates for Area Sources I-15 Cumulative No Project

Freeway width 40.0 feet
 Distance 5280 feet
 sq ft/mile 211200 sf
 sq m/mile 19631 sqm
 Each segment at 400.0 feet long

Emissions

	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day *	520.2	157.5	34.5	68.3	7.8	192.2
grams/mi/sec	6.02E-03	1.82E-03	3.99E-04	7.91E-04	9.07E-05	2.22E-03
grms/sec/sqm	3.07E-07	9.29E-08	2.03E-08	4.03E-08	4.62E-09	1.13E-07

* Total emissions per mile calculated using the above speciation factors.

Emissions per Area Segment

	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grms/day	39.4	11.9	2.6	5.2	0.6	14.6
grms/hr	1.6	0.5	0.1	0.2	0.0	0.6
grms/sec *	4.561E-04	1.381E-04	3.022E-05	5.993E-05	6.869E-06	1.685E-04
lbs/year	31.71	9.60	2.10	4.17	0.48	11.71
lbs/hour	0.00362	0.00110	0.00024	0.00048	0.00005	0.00134

* Emission factor to be multiplied by X/Q to obtain concentration.

Derivation of Emission Rates for Area Sources I-15 Project Only

Freeway width	40.0 feet	12.192 m
Distance	5280 feet	1609.344 m
sq ft/mile	211200 sf	64373.76 m
sq m/mile	19631 sqm	
Each segment at	400.0 feet long	121.92 m

Emissions

	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day *	3.1	0.7	0.2	0.4	0.0	1.0
grams/mi/sec	3.63E-05	8.63E-06	1.87E-06	4.34E-06	4.20E-07	1.17E-05
grms/sec/sqm	1.85E-09	4.40E-10	9.50E-11	2.21E-10	2.14E-11	5.94E-10

* Total emissions per mile calculated using the above speciation factors.

Emissions per Area Segment

	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grms/day	0.2	0.1	0.0	0.0	0.0	0.1
grms/hr	0.0	0.0	0.0	0.0	0.0	0.0
grms/sec *	2.749E-06	6.537E-07	1.413E-07	3.291E-07	3.182E-08	8.834E-07
lbs/year	0.19	0.05	0.01	0.02	0.002	0.06
lbs/hour	0.00002	0.00001	0.000001	0.000003	0.0000003	0.00001

* Emission factor to be multiplied by X/Q to obtain concentration.

Derivation of Emission Rates for Area Sources SR-60 Cumulative No Project

Freeway width 90.0 feet
 Distance 5280 feet
 sq ft/mile 475200 sf
 sq m/mile 44170 sqm
 Each segment at 900.0 feet long

Emissions

	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day *	770.2	127.4	26.8	82.6	5.9	207.2
grams/mi/sec	8.91E-03	1.47E-03	3.11E-04	9.56E-04	6.85E-05	2.40E-03
grms/sec/sqm	2.02E-07	3.34E-08	7.03E-09	2.16E-08	1.55E-09	5.43E-08

* Total emissions per mile calculated using the above speciation factors.

Emissions per Area Segment

	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grms/day	131.3	21.7	4.6	14.1	1.0	35.3
grms/hr	5.5	0.9	0.2	0.6	0.0	1.5
grms/sec *	1.519E-03	2.514E-04	5.296E-05	1.630E-04	1.168E-05	4.087E-04
lbs/year	105.64	17.48	3.68	11.33	0.81	28.42
lbs/hour	0.01206	0.00200	0.00042	0.00129	0.00009	0.00324

* Emission factor to be multiplied by X/Q to obtain concentration.

Derivation of Emission Rates for Area Sources SR-60 Project Only

Freeway width	90.0 feet	27.432 m
Distance	5280 feet	1609.344 m
sq ft/mile	475200 sf	
sq m/mile	44170 sqm	
Each segment at	900.0 feet long	274.32 m

Emissions

	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day *	5.0	0.3	0.1	0.4	0.0	1.0
grams/mi/sec	5.78E-05	3.43E-06	6.12E-07	5.14E-06	1.15E-07	1.11E-05
grms/sec/sqm	1.31E-09	7.77E-11	1.39E-11	1.16E-10	2.60E-12	2.51E-10

* Total emissions per mile calculated using the above speciation factors.

Emissions per Area Segment

	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grms/day	0.9	0.1	0.0	0.1	0.0	0.2
grms/hr	0.0	0.0	0.0	0.0	0.0	0.0
grms/sec *	9.856E-06	5.852E-07	1.043E-07	8.758E-07	1.956E-08	1.891E-06
lbs/year	0.69	0.04	0.01	0.06	0.001	0.13
lbs/hour	0.00008	0.000005	0.000001	0.00001	0.0000002	0.00002

* Emission factor to be multiplied by X/Q to obtain concentration.