

**Parenthetical CALEEMOD Assumptions
For: Tenth Street Center Industrial Park
Date: April 2014**

CONSTRUCTION

Demolition (2014)

- Demolition of 5,800 square-foot office building.
- 20 days.

Equipment:

Quantity	Type	Hours of Daily Operation
1	Excavators	8
3	Concrete/Industrial Saws	8
1	Crane	4
2	Crawler Tractors	6
1	Crushing/Processing Equipment	6
1	Grader	4

Grading (2014)

- 60,000 cubic yards of cut and fill.
- 68 days.

Equipment:

Quantity	Type	Hours of Daily Operation
6	Scrapers	6
2	Off-Highway Trucks	4
1	Rubber Tired Loader	4
2	Crawler Tractors	6
1	Rubber Tired Dozers	6
1	Excavator	8

Paving (2014)

- 7 days.

Equipment:

Quantity	Type	Hours of Daily Operation
1	Paver	8
1	Paving Equipment	8
2	Rollers	8

**Azusa 10th Street Center
South Coast Air Basin, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	29.50	1000sqft	0.68	29,500.00	0
Manufacturing	84.00	1000sqft	1.93	84,000.00	0
Unrefrigerated Warehouse-No Rail	229.10	1000sqft	5.26	229,100.00	0
Parking Lot	523.00	Space	4.71	209,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2015
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Demo: 20 days, Grading: 45 days, Construction 180 days, Paving: 7 days

Off-road Equipment - Construction equip

Off-road Equipment - Construction equipment

Off-road Equipment - Construction equip

Off-road Equipment - Equipment fleet

Demolition - 5800 sf demo

Vehicle Trips - trip rates per traffic report

Vehicle Emission Factors - Fleet Mix adjusted for 65% auto, 15% large trucks, 20% vans/trucks

Construction Off-road Equipment Mitigation - Water three times daily, tier 3 mitigation

Off-road Equipment -

Grading - Site acreage

Trips and VMT - Material will be balanced on-site

Vehicle Emission Factors - Fleet mix = 15% heavy trucks, 20% medium

Vehicle Emission Factors - Fleet mix = 15% heavy, 20% medium

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	121.00
tblConstructionPhase	NumDays	300.00	180.00
tblConstructionPhase	NumDays	30.00	68.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	PhaseEndDate	10/6/2015	4/20/2015
tblConstructionPhase	PhaseStartDate	4/21/2015	11/1/2014
tblGrading	AcresOfGrading	357.00	21.00
tblGrading	MaterialExported	0.00	60,000.00
tblGrading	MaterialImported	0.00	60,000.00
tblOffRoadEquipment	HorsePower	80.00	100.00
tblOffRoadEquipment	LoadFactor	0.50	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment

tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblTripsAndVMT	HaulingTripLength	20.00	0.30
tblVehicleEF	HHD	0.03	0.15
tblVehicleEF	HHD	0.03	0.15
tblVehicleEF	HHD	0.03	0.15
tblVehicleEF	LDA	0.52	0.65
tblVehicleEF	LDA	0.52	0.65
tblVehicleEF	LDA	0.52	0.65
tblVehicleEF	LDT1	0.06	0.00

tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00

tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	WD_TR	11.42	11.01
tblVehicleTrips	WD_TR	2.59	3.56

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					
2014	74.2090	135.7870	94.0163	0.1149	5.4436	5.4083	10.8519	2.6548	4.9755	7.6302	0.0000	12,080.6122	12,080.6122	3.3794	0.0000	12,151.5798
2015	73.6562	50.2630	53.1727	0.0955	3.6361	2.8074	6.4436	0.9753	2.6589	3.6342	0.0000	9,058.2438	9,058.2438	1.0657	0.0000	9,080.6232
Total	147.8652	186.0501	147.1889	0.2104	9.0797	8.2157	17.2955	3.6301	7.6343	11.2644	0.0000	21,138.8561	21,138.8561	4.4451	0.0000	21,232.2030

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					
2014	70.1089	54.0759	75.8598	0.1149	2.8345	1.9758	4.1907	1.0288	1.9735	3.0023	0.0000	12,080.6122	12,080.6122	3.3794	0.0000	12,151.5798
2015	69.8299	29.0691	53.1858	0.0955	2.8346	1.3081	4.1427	0.7786	1.2935	2.0721	0.0000	9,058.2438	9,058.2438	1.0657	0.0000	9,080.6232
Total	139.9388	83.1450	129.0456	0.2104	5.6691	3.2838	8.3334	1.8074	3.2670	5.0744	0.0000	21,138.8560	21,138.8560	4.4451	0.0000	21,232.2029

	ROG	NOx	CO	SO2	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	5.36	55.31	12.33	0.00	37.56	60.03	51.82	50.21	57.21	54.95	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1498	8.8000e-004	0.0914	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1894	0.1894	5.5000e-004		0.2010
Energy	0.0618	0.5619	0.4720	3.3700e-003		0.0427	0.0427		0.0427	0.0427		674.3194	674.3194	0.0129	0.0124	678.4232
Mobile	8.3030	74.6051	95.9194	0.2605	13.4005	1.4171	14.8176	3.6609	1.3030	4.9639		24,953.48 17	24,953.48 17	0.4793		24,963.54 61
Total	21.5146	75.1679	96.4828	0.2639	13.4005	1.4601	14.8606	3.6609	1.3460	5.0069		25,627.99 06	25,627.99 06	0.4927	0.0124	25,642.17 03

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	13.1498	8.8000e-004	0.0914	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1894	0.1894	5.5000e-004		0.2010
Energy	0.0618	0.5619	0.4720	3.3700e-003		0.0427	0.0427		0.0427	0.0427		674.3194	674.3194	0.0129	0.0124	678.4232
Mobile	8.3030	74.6051	95.9194	0.2605	13.4005	1.4171	14.8176	3.6609	1.3030	4.9639		24,953.48 17	24,953.48 17	0.4793		24,963.54 61
Total	21.5146	75.1679	96.4828	0.2639	13.4005	1.4601	14.8606	3.6609	1.3460	5.0069		25,627.99 06	25,627.99 06	0.4927	0.0124	25,642.17 03

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2014	4/28/2014	5	20	
2	Grading	Grading	4/29/2014	7/31/2014	5	68	
3	Paving	Paving	8/1/2014	8/11/2014	5	7	
4	Building Construction	Building Construction	8/12/2014	4/20/2015	5	180	
5	Architectural Coating	Architectural Coating	11/1/2014	4/20/2015	5	121	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 523,314; Non-Residential Outdoor: 174,438 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	3	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Scrapers	6	6.00	361	0.48
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29

Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Cranes	1	4.00	226	0.29
Demolition	Crawler Tractors	2	6.00	208	0.43
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Graders	1	4.00	174	0.41
Grading	Crawler Tractors	2	6.00	208	0.43
Grading	Off-Highway Trucks	2	4.00	400	0.38
Grading	Rubber Tired Loaders	1	4.00	199	0.36
Building Construction	Concrete/Industrial Saws	1	4.00	81	0.73
Building Construction	Crawler Tractors	1	4.00	208	0.43
Building Construction	Excavators	1	4.00	162	0.38
Building Construction	Trenchers	1	4.00	100	0.40

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	9	23.00	0.00	26.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	13	33.00	0.00	7,500.00	14.70	6.90	0.30	LD_Mix	HDT_Mix	HHDT
Building Construction	11	229.00	90.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2855	0.0000	0.2855	0.0432	0.0000	0.0432			0.0000			0.0000
Off-Road	5.5250	50.7720	26.7504	0.0468		3.0452	3.0452		2.9385	2.9385		4,694.6479	4,694.6479	0.9935		4,715.5119
Total	5.5250	50.7720	26.7504	0.0468	0.2855	3.0452	3.3307	0.0432	2.9385	2.9817		4,694.6479	4,694.6479	0.9935		4,715.5119

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	0.0289	0.4639	0.2997	9.6000e-004	0.0226	8.9500e-003	0.0316	6.2000e-003	8.2300e-003	0.0144		98.9646	98.9646	8.5000e-004		98.9824
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	0.1181	0.1479	1.8266	3.2600e-003	0.2571	2.4200e-003	0.2595	0.0682	2.2200e-003	0.0704		292.7653	292.7653	0.0167		293.1149
Total	0.1469	0.6118	2.1262	4.2200e-003	0.2797	0.0114	0.2911	0.0744	0.0105	0.0848		391.7298	391.7298	0.0175		392.0974

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1058	0.0000	0.1058	0.0160	0.0000	0.0160			0.0000			0.0000
Off-Road	1.0398	21.7843	28.8205	0.0468		1.2202	1.2202		1.2202	1.2202	0.0000	4,694.6479	4,694.6479	0.9935		4,715.5119
Total	1.0398	21.7843	28.8205	0.0468	0.1058	1.2202	1.3260	0.0160	1.2202	1.2362	0.0000	4,694.6479	4,694.6479	0.9935		4,715.5119

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	0.0289	0.4639	0.2997	9.6000e-004	0.0182	8.9500e-003	0.0271	5.1000e-003	8.2300e-003	0.0133		98.9646	98.9646	8.5000e-004		98.9824
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	0.1181	0.1479	1.8266	3.2600e-003	0.1990	2.4200e-003	0.2014	0.0539	2.2200e-003	0.0561		292.7653	292.7653	0.0167		293.1149
Total	0.1469	0.6118	2.1262	4.2200e-003	0.2171	0.0114	0.2285	0.0590	0.0105	0.0695		391.7298	391.7298	0.0175		392.0974

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					5.0436	0.0000	5.0436	2.5483	0.0000	2.5483			0.0000			0.0000
Off-Road	10.3476	132.4410	76.2033	0.1068		5.3828	5.3828		4.9522	4.9522	11,331.67	11,331.67	3.3486			11,402.00
											92	92				05
Total	10.3476	132.4410	76.2033	0.1068	5.0436	5.3828	10.4265	2.5483	4.9522	7.5005		11,331.67	11,331.67	3.3486		11,402.00
											92	92				05

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	0.9665	3.1338	15.1923	3.4400e-003	0.0311	0.0220	0.0531	8.7100e-003	0.0201	0.0288			328.8785	328.8785	6.8800e-003		329.0231
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	0.1694	0.2122	2.6207	4.6700e-003	0.3689	3.4800e-003	0.3723	0.0978	3.1800e-003	0.1010			420.0545	420.0545	0.0239		420.5562
Total	1.1359	3.3460	17.8130	8.1100e-003	0.3999	0.0255	0.4254	0.1065	0.0232	0.1298			748.9331	748.9331	0.0308		749.5793

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8687	0.0000	1.8687	0.9441	0.0000	0.9441			0.0000			0.0000
Off-Road	2.6240	50.7299	58.0468	0.1068		1.9503	1.9503		1.9503	1.9503	0.0000	11,331.67	11,331.67	3.3486		11,402.00
												92	92			05
Total	2.6240	50.7299	58.0468	0.1068	1.8687	1.9503	3.8190	0.9441	1.9503	2.8944	0.0000	11,331.67	11,331.67	3.3486		11,402.00
												92	92			05

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	0.9665	3.1338	15.1923	3.4400e-003	0.0254	0.0220	0.0474	7.3200e-003	0.0201	0.0274		328.8785	328.8785	6.8800e-003		329.0231
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	0.1694	0.2122	2.6207	4.6700e-003	0.2855	3.4800e-003	0.2890	0.0774	3.1800e-003	0.0805		420.0545	420.0545	0.0239		420.5562
Total	1.1359	3.3460	17.8130	8.1100e-003	0.3109	0.0255	0.3363	0.0847	0.0232	0.1079		748.9331	748.9331	0.0308		749.5793

3.4 Paving - 2014

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	1.5531	16.4691	9.5248	0.0138		0.9813	0.9813		0.9028	0.9028		1,459.9001	1,459.9001	0.4314		1,468.9599
Paving	1.7629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3160	16.4691	9.5248	0.0138		0.9813	0.9813		0.9028	0.9028		1,459.9001	1,459.9001	0.4314		1,468.9599

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0513	0.0643	0.7942	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2893	127.2893	7.2400e-003		127.4413
Total	0.0513	0.0643	0.7942	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2893	127.2893	7.2400e-003		127.4413

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3388	7.0013	10.4476	0.0138		0.4020	0.4020		0.4020	0.4020	0.0000	1,459.9001	1,459.9001	0.4314		1,468.9599
Paving	1.7629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.1017	7.0013	10.4476	0.0138		0.4020	0.4020		0.4020	0.4020	0.0000	1,459.9001	1,459.9001	0.4314		1,468.9599

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	0.0513	0.0643	0.7942	1.4200e-003	0.0865	1.0500e-003	0.0876	0.0234	9.6000e-004	0.0244		127.2893	127.2893	7.2400e-003		127.4413

Total	0.0513	0.0643	0.7942	1.4200e-003	0.0865	1.0500e-003	0.0876	0.0234	9.6000e-004	0.0244		127.2893	127.2893	7.2400e-003		127.4413
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3.5 Building Construction - 2014

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	4.5451	38.6970	22.0180	0.0339		2.5328	2.5328		2.3950	2.3950		3,426.7303	3,426.7303	0.8483		3,444.5439
Total	4.5451	38.6970	22.0180	0.0339		2.5328	2.5328		2.3950	2.3950		3,426.7303	3,426.7303	0.8483		3,444.5439

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	0.9862	10.1302	10.8026	0.0197	0.5622	0.1992	0.7613	0.1601	0.1831	0.3432		2,007.7797	2,007.7797	0.0178		2,008.1528
Worker	1.1756	1.4724	18.1863	0.0324	2.5597	0.0241	2.5838	0.6788	0.0221	0.7009		2,914.9239	2,914.9239	0.1658		2,918.4052
Total	2.1617	11.6026	28.9889	0.0521	3.1219	0.2233	3.3452	0.8389	0.2052	1.0441		4,922.7037	4,922.7037	0.1835		4,926.5579

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8318	17.2809	21.8985	0.0339		1.0330	1.0330		1.0330	1.0330	0.0000	3,426.730 3	3,426.730 3	0.8483		3,444.543 9
Total	0.8318	17.2809	21.8985	0.0339		1.0330	1.0330		1.0330	1.0330	0.0000	3,426.730 3	3,426.730 3	0.8483		3,444.543 9

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	0.9862	10.1302	10.8026	0.0197	0.4555	0.1992	0.6546	0.1339	0.1831	0.3170		2,007.779 7	2,007.779 7	0.0178		2,008.152 8
Worker	1.1756	1.4724	18.1863	0.0324	1.9811	0.0241	2.0052	0.5368	0.0221	0.5589		2,914.923 9	2,914.923 9	0.1658		2,918.405 2
Total	2.1617	11.6026	28.9889	0.0521	2.4366	0.2233	2.6598	0.6707	0.2052	0.8759		4,922.703 7	4,922.703 7	0.1835		4,926.557 9

3.5 Building Construction - 2015

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	4.3109	37.2615	21.8160	0.0339		2.4066	2.4066		2.2726	2.2726		3,403.104 9	3,403.104 9	0.8312		3,420.559 6
Total	4.3109	37.2615	21.8160	0.0339		2.4066	2.4066		2.2726	2.2726		3,403.104 9	3,403.104 9	0.8312		3,420.559 6

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	0.8505	8.8440	9.7563	0.0196	0.5623	0.1529	0.7152	0.1601	0.1406	0.3007		1,985.6037	1,985.6037	0.0156		1,985.9314
Worker	1.0562	1.3217	16.4036	0.0325	2.5597	0.0225	2.5822	0.6788	0.0207	0.6995		2,821.3526	2,821.3526	0.1518		2,824.5398
Total	1.9067	10.1657	26.1599	0.0521	3.1220	0.1755	3.2974	0.8390	0.1613	1.0002		4,806.9563	4,806.9563	0.1674		4,810.4712

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8318	17.2809	21.8985	0.0339		1.0330	1.0330		1.0330	1.0330	0.0000	3,403.1049	3,403.1049	0.8312		3,420.5596
Total	0.8318	17.2809	21.8985	0.0339		1.0330	1.0330		1.0330	1.0330	0.0000	3,403.1049	3,403.1049	0.8312		3,420.5596

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	0.8505	8.8440	9.7563	0.0196	0.4556	0.1529	0.6085	0.1339	0.1406	0.2745		1,985.6037	1,985.6037	0.0156		1,985.9314
Worker	1.0562	1.3217	16.4036	0.0325	1.9811	0.0225	2.0036	0.5368	0.0207	0.5575		2,821.3526	2,821.3526	0.1518		2,824.5398
Total	1.9067	10.1657	26.1599	0.0521	2.4367	0.1755	2.6121	0.6707	0.1613	0.8320		4,806.9563	4,806.9563	0.1674		4,810.4712

3.6 Architectural Coating - 2014
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	66.8199					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4462	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401		282.2905
Total	67.2661	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401		282.2905

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	0.2362	0.2958	3.6531	6.5100e-003	0.5142	4.8500e-003	0.5190	0.1364	4.4300e-003	0.1408		585.5306	585.5306	0.0333		586.2299
Total	0.2362	0.2958	3.6531	6.5100e-003	0.5142	4.8500e-003	0.5190	0.1364	4.4300e-003	0.1408		585.5306	585.5306	0.0333		586.2299

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	66.8199					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0401		282.2905
Total	66.8793	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0401		282.2905

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	0.2362	0.2958	3.6531	6.5100e-003	0.3980	4.8500e-003	0.4028	0.1078	4.4300e-003	0.1123		585.5306	585.5306	0.0333		586.2299
Total	0.2362	0.2958	3.6531	6.5100e-003	0.3980	4.8500e-003	0.4028	0.1078	4.4300e-003	0.1123		585.5306	585.5306	0.0333		586.2299

3.6 Architectural Coating - 2015

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	66.8199					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	67.2265	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

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	0.2122	0.2655	3.2951	6.5200e-003	0.5142	4.5200e-003	0.5187	0.1364	4.1500e-003	0.1405		566.7346	566.7346	0.0305		567.3748
Total	0.2122	0.2655	3.2951	6.5200e-003	0.5142	4.5200e-003	0.5187	0.1364	4.1500e-003	0.1405		566.7346	566.7346	0.0305		567.3748

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	66.8199					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0367		282.2177
Total	66.8793	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0367		282.2177

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	0.2122	0.2655	3.2951	6.5200e-003	0.3980	4.5200e-003	0.4025	0.1078	4.1500e-003	0.1120		566.7346	566.7346	0.0305		567.3748
Total	0.2122	0.2655	3.2951	6.5200e-003	0.3980	4.5200e-003	0.4025	0.1078	4.1500e-003	0.1120		566.7346	566.7346	0.0305		567.3748

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	8.3030	74.6051	95.9194	0.2605	13.4005	1.4171	14.8176	3.6609	1.3030	4.9639		24,953.48 17	24,953.48 17	0.4793		24,963.54 61
Unmitigated	8.3030	74.6051	95.9194	0.2605	13.4005	1.4171	14.8176	3.6609	1.3030	4.9639		24,953.48 17	24,953.48 17	0.4793		24,963.54 61

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	320.88	125.16	52.08	1,127,085	1,127,085
Office Park	324.80	48.38	22.42	818,008	818,008
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	815.60	593.37	593.37	3,223,299	3,223,299
Total	1,461.27	766.91	667.87	5,168,391	5,168,391

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
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	40.00	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.650000	0.000000	0.000000	0.000000	0.000000	0.000000	0.200000	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Natural Gas Mitigated	0.0618	0.5619	0.4720	3.3700e-003		0.0427	0.0427		0.0427	0.0427			674.3194	674.3194	0.0129	0.0124	678.4232

NaturalGas Unmitigated	0.0618	0.5619	0.4720	3.3700e-003		0.0427	0.0427		0.0427	0.0427		674.3194	674.3194	0.0129	0.0124	678.4232
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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Office Park	831.658	8.9700e-003	0.0815	0.0685	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003			97.8421	97.8421	1.8800e-003	1.7900e-003	98.4375
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	571.181	6.1600e-003	0.0560	0.0470	3.4000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003			67.1977	67.1977	1.2900e-003	1.2300e-003	67.6067
Manufacturing	4328.88	0.0467	0.4244	0.3565	2.5500e-003		0.0323	0.0323		0.0323	0.0323			509.2796	509.2796	9.7600e-003	9.3400e-003	512.3790
Total		0.0618	0.5619	0.4720	3.3800e-003		0.0427	0.0427		0.0427	0.0427			674.3194	674.3194	0.0129	0.0124	678.4232

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	
Unrefrigerated Warehouse-No	0.571181	6.1600e-003	0.0560	0.0470	3.4000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003			67.1977	67.1977	1.2900e-003	1.2300e-003	67.6067
Manufacturing	4.32888	0.0467	0.4244	0.3565	2.5500e-003		0.0323	0.0323		0.0323	0.0323			509.2796	509.2796	9.7600e-003	9.3400e-003	512.3790
Office Park	0.831658	8.9700e-003	0.0815	0.0685	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003			97.8421	97.8421	1.8800e-003	1.7900e-003	98.4375

Total		0.0618	0.5619	0.4720	3.3800e-003		0.0427	0.0427		0.0427	0.0427		674.3194	674.3194	0.0129	0.0124	678.4232
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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.1498	8.8000e-004	0.0914	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1894	0.1894	5.5000e-004		0.2010
Unmitigated	13.1498	8.8000e-004	0.0914	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1894	0.1894	5.5000e-004		0.2010

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	2.2151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0400e-003	8.8000e-004	0.0914	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1894	0.1894	5.5000e-004		0.2010
Total	13.1498	8.8000e-004	0.0914	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1894	0.1894	5.5000e-004		0.2010

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	2.2151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0400e-003	8.8000e-004	0.0914	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004			0.1894	0.1894	5.5000e-004	0.2010
Total	13.1498	8.8000e-004	0.0914	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004			0.1894	0.1894	5.5000e-004	0.2010

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

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	4/1/2014	4/28/2014	5	20	
2	Grading	Grading	4/29/2014	7/31/2014	5	68	
3	Paving	Paving	8/1/2014	8/11/2014	5	7	
4	Building Construction	Building Construction	8/12/2014	4/20/2015	5	180	
5	Architectural Coating	Architectural Coating	11/1/2014	4/20/2015	5	121	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 523,314; Non-Residential Outdoor: 174,438 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	3	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Scrapers	6	6.00	361	0.48
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Cranes	1	4.00	226	0.29
Demolition	Crawler Tractors	2	6.00	208	0.43
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Graders	1	4.00	174	0.41
Grading	Crawler Tractors	2	6.00	208	0.43
Grading	Off-Highway Trucks	2	4.00	400	0.38
Grading	Rubber Tired Loaders	1	4.00	199	0.36
Building Construction	Concrete/Industrial Saws	1	4.00	81	0.73
Building Construction	Crawler Tractors	1	4.00	208	0.43
Building Construction	Excavators	1	4.00	162	0.38
Building Construction	Trenchers	1	4.00	100	0.40

**Azusa 10th Street Center
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	29.50	1000sqft	0.68	29,500.00	0
Manufacturing	84.00	1000sqft	1.93	84,000.00	0
Unrefrigerated Warehouse-No Rail	229.10	1000sqft	5.26	229,100.00	0
Parking Lot	523.00	Space	4.71	209,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2015
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 -
- Construction Phase - Demo: 20 days, Grading: 45 days, Construction 180 days, Paving: 7 days
- Off-road Equipment - Construction equip
- Off-road Equipment - Construction equipment
- Off-road Equipment - Construction equip
- Off-road Equipment - Equipment fleet
- Demolition - 5800 sf demo
- Vehicle Trips - trip rates per traffic report

Vehicle Emission Factors - Fleet Mix adjusted for 65% auto, 15% large trucks, 20% vans/trucks

Construction Off-road Equipment Mitigation - Water three times daily, tier 3 mitigation

Off-road Equipment -

Grading - Site acreage

Trips and VMT - Material will be balanced on-site

Vehicle Emission Factors - Fleet mix = 15% heavy trucks, 20% medium

Vehicle Emission Factors - Fleet mix = 15% heavy, 20% medium

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	121.00
tblConstructionPhase	NumDays	300.00	180.00
tblConstructionPhase	NumDays	30.00	68.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	PhaseEndDate	10/6/2015	4/20/2015
tblConstructionPhase	PhaseStartDate	4/21/2015	11/1/2014
tblGrading	AcresOfGrading	357.00	21.00
tblGrading	MaterialExported	0.00	60,000.00
tblGrading	MaterialImported	0.00	60,000.00
tblOffRoadEquipment	HorsePower	80.00	100.00
tblOffRoadEquipment	LoadFactor	0.50	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment

tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblTripsAndVMT	HaulingTripLength	20.00	0.30
tblVehicleEF	HHD	0.03	0.15
tblVehicleEF	HHD	0.03	0.15
tblVehicleEF	HHD	0.03	0.15
tblVehicleEF	LDA	0.52	0.65
tblVehicleEF	LDA	0.52	0.65
tblVehicleEF	LDA	0.52	0.65
tblVehicleEF	LDT1	0.06	0.00

tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00

tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	WD_TR	11.42	11.01
tblVehicleTrips	WD_TR	2.59	3.56

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	2.2572	7.8574	6.3565	8.9600e-003	0.3580	0.3639	0.7220	0.1364	0.3399	0.4763	0.0000	818.7522	818.7522	0.1640	0.0000	822.1960
2015	2.8731	1.9843	2.0924	3.6500e-003	0.1393	0.1095	0.2488	0.0374	0.1037	0.1411	0.0000	314.5534	314.5534	0.0377	0.0000	315.3453
Total	5.1303	9.8417	8.4489	0.0126	0.4973	0.4734	0.9707	0.1738	0.4436	0.6174	0.0000	1,133.3056	1,133.3056	0.2017	0.0000	1,137.5413

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	1.7478	3.6335	5.7551	8.9600e-003	0.2080	0.1472	0.3552	0.0717	0.1462	0.2179	0.0000	818.7516	818.7516	0.1640	0.0000	822.1953
2015	2.7239	1.1577	2.0929	3.6500e-003	0.1087	0.0511	0.1597	0.0299	0.0505	0.0804	0.0000	314.5532	314.5532	0.0377	0.0000	315.3451
Total	4.4717	4.7911	7.8480	0.0126	0.3166	0.1983	0.5149	0.1016	0.1967	0.2983	0.0000	1,133.3048	1,133.3048	0.2017	0.0000	1,137.5405

	ROG	NOx	CO	SO2	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	12.84	51.32	7.11	0.00	36.33	58.12	46.96	41.54	55.66	51.69	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3993	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0215	0.0215	6.0000e-005	0.0000	0.0228
Energy	0.0113	0.1026	0.0861	6.2000e-004		7.7900e-003	7.7900e-003		7.7900e-003	7.7900e-003	0.0000	874.0533	874.0533	0.0372	9.3000e-003	877.7164
Mobile	1.3282	12.2651	15.9263	0.0400	2.0598	0.2221	2.2819	0.5637	0.2042	0.7679	0.0000	3,477.0828	3,477.0828	0.0680	0.0000	3,478.5114
Waste						0.0000	0.0000		0.0000	0.0000	70.4277	0.0000	70.4277	4.1622	0.0000	157.8331
Water						0.0000	0.0000		0.0000	0.0000	24.6340	299.5454	324.1794	2.5439	0.0626	397.0048
Total	3.7388	12.3677	16.0239	0.0406	2.0598	0.2299	2.2897	0.5637	0.2120	0.7757	95.0617	4,650.7030	4,745.7647	6.8114	0.0719	4,911.0885

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3993	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0215	0.0215	6.0000e-005	0.0000	0.0228
Energy	0.0113	0.1026	0.0861	6.2000e-004		7.7900e-003	7.7900e-003		7.7900e-003	7.7900e-003	0.0000	874.0533	874.0533	0.0372	9.3000e-003	877.7164
Mobile	1.3282	12.2651	15.9263	0.0400	2.0598	0.2221	2.2819	0.5637	0.2042	0.7679	0.0000	3,477.0828	3,477.0828	0.0680	0.0000	3,478.5114

Waste						0.0000	0.0000		0.0000	0.0000	70.4277	0.0000	70.4277	4.1622	0.0000	157.8331
Water						0.0000	0.0000		0.0000	0.0000	24.6340	299.5454	324.1794	2.5435	0.0625	396.9655
Total	3.7388	12.3677	16.0239	0.0406	2.0598	0.2299	2.2897	0.5637	0.2120	0.7757	95.0617	4,650.7030	4,745.7647	6.8109	0.0718	4,911.0492

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13	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	4/1/2014	4/28/2014	5	20	
2	Grading	Grading	4/29/2014	7/31/2014	5	68	
3	Paving	Paving	8/1/2014	8/11/2014	5	7	
4	Building Construction	Building Construction	8/12/2014	4/20/2015	5	180	
5	Architectural Coating	Architectural Coating	11/1/2014	4/20/2015	5	121	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 523,314; Non-Residential Outdoor: 174,438 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	3	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Excavators	1	8.00	162	0.38

Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Scrapers	6	6.00	361	0.48
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Cranes	1	4.00	226	0.29
Demolition	Crawler Tractors	2	6.00	208	0.43
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Graders	1	4.00	174	0.41
Grading	Crawler Tractors	2	6.00	208	0.43
Grading	Off-Highway Trucks	2	4.00	400	0.38
Grading	Rubber Tired Loaders	1	4.00	199	0.36
Building Construction	Concrete/Industrial Saws	1	4.00	81	0.73
Building Construction	Crawler Tractors	1	4.00	208	0.43
Building Construction	Excavators	1	4.00	162	0.38
Building Construction	Trenchers	1	4.00	100	0.40

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	9	23.00	0.00	26.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	13	33.00	0.00	7,500.00	14.70	6.90	0.30	LD_Mix	HDT_Mix	HHDT
Building Construction	11	229.00	90.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Architectural Coating	1	46.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8500e-003	0.0000	2.8500e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0553	0.5077	0.2675	4.7000e-004		0.0305	0.0305		0.0294	0.0294	0.0000	42.5891	42.5891	9.0100e-003	0.0000	42.7784
Total	0.0553	0.5077	0.2675	4.7000e-004	2.8500e-003	0.0305	0.0333	4.3000e-004	0.0294	0.0298	0.0000	42.5891	42.5891	9.0100e-003	0.0000	42.7784

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	4.8900e-003	3.3100e-003	1.0000e-005	2.2000e-004	9.0000e-005	3.1000e-004	6.0000e-005	8.0000e-005	1.4000e-004	0.0000	0.8969	0.8969	1.0000e-005	0.0000	0.8971

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	1.6700e-003	0.0173	3.0000e-005	2.5200e-003	2.0000e-005	2.5500e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.5303	2.5303	1.5000e-004	0.0000	2.5335
Total	1.4400e-003	6.5600e-003	0.0207	4.0000e-005	2.7400e-003	1.1000e-004	2.8600e-003	7.3000e-004	1.0000e-004	8.3000e-004	0.0000	3.4272	3.4272	1.6000e-004	0.0000	3.4305

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0104	0.2178	0.2882	4.7000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	42.5891	42.5891	9.0100e-003	0.0000	42.7784
Total	0.0104	0.2178	0.2882	4.7000e-004	1.0600e-003	0.0122	0.0133	1.6000e-004	0.0122	0.0124	0.0000	42.5891	42.5891	9.0100e-003	0.0000	42.7784

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	4.8900e-003	3.3100e-003	1.0000e-005	1.8000e-004	9.0000e-005	2.7000e-004	5.0000e-005	8.0000e-005	1.3000e-004	0.0000	0.8969	0.8969	1.0000e-005	0.0000	0.8971
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	1.6700e-003	0.0173	3.0000e-005	1.9500e-003	2.0000e-005	1.9800e-003	5.3000e-004	2.0000e-005	5.5000e-004	0.0000	2.5303	2.5303	1.5000e-004	0.0000	2.5335
Total	1.4400e-003	6.5600e-003	0.0207	4.0000e-005	2.1300e-003	1.1000e-004	2.2500e-003	5.8000e-004	1.0000e-004	6.8000e-004	0.0000	3.4272	3.4272	1.6000e-004	0.0000	3.4305

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1715	0.0000	0.1715	0.0866	0.0000	0.0866	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3518	4.5030	2.5909	3.6300e-003		0.1830	0.1830		0.1684	0.1684	0.0000	349.5175	349.5175	0.1033	0.0000	351.6865
Total	0.3518	4.5030	2.5909	3.6300e-003	0.1715	0.1830	0.3545	0.0866	0.1684	0.2550	0.0000	349.5175	349.5175	0.1033	0.0000	351.6865

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0366	0.1078	0.6082	1.2000e-004	1.0400e-003	7.8000e-004	1.8200e-003	2.9000e-004	7.1000e-004	1.0100e-003	0.0000	9.8871	9.8871	2.2000e-004	0.0000	9.8917
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5800e-003	8.1600e-003	0.0846	1.5000e-004	0.0123	1.2000e-004	0.0124	3.2700e-003	1.1000e-004	3.3800e-003	0.0000	12.3435	12.3435	7.4000e-004	0.0000	12.3590
Total	0.0422	0.1160	0.6928	2.7000e-004	0.0134	9.0000e-004	0.0143	3.5600e-003	8.2000e-004	4.3900e-003	0.0000	22.2306	22.2306	9.6000e-004	0.0000	22.2507

Mitigated Construction On-Site

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

Fugitive Dust					0.0635	0.0000	0.0635	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0892	1.7248	1.9736	3.6300e-003		0.0663	0.0663		0.0663	0.0663	0.0000	349.5171	349.5171	0.1033	0.0000	351.6861
Total	0.0892	1.7248	1.9736	3.6300e-003	0.0635	0.0663	0.1298	0.0321	0.0663	0.0984	0.0000	349.5171	349.5171	0.1033	0.0000	351.6861

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0366	0.1078	0.6082	1.2000e-004	8.5000e-004	7.8000e-004	1.6400e-003	2.5000e-004	7.1000e-004	9.6000e-004	0.0000	9.8871	9.8871	2.2000e-004	0.0000	9.8917
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5800e-003	8.1600e-003	0.0846	1.5000e-004	9.5400e-003	1.2000e-004	9.6500e-003	2.5900e-003	1.1000e-004	2.7000e-003	0.0000	12.3435	12.3435	7.4000e-004	0.0000	12.3590
Total	0.0422	0.1160	0.6928	2.7000e-004	0.0104	9.0000e-004	0.0113	2.8400e-003	8.2000e-004	3.6600e-003	0.0000	22.2306	22.2306	9.6000e-004	0.0000	22.2507

3.4 Paving - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4400e-003	0.0576	0.0333	5.0000e-005		3.4300e-003	3.4300e-003		3.1600e-003	3.1600e-003	0.0000	4.6354	4.6354	1.3700e-003	0.0000	4.6642
Paving	6.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0116	0.0576	0.0333	5.0000e-005		3.4300e-003	3.4300e-003		3.1600e-003	3.1600e-003	0.0000	4.6354	4.6354	1.3700e-003	0.0000	4.6642

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	2.5000e-004	2.6400e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3851	0.3851	2.0000e-005	0.0000	0.3855
Total	1.7000e-004	2.5000e-004	2.6400e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3851	0.3851	2.0000e-005	0.0000	0.3855

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1900e-003	0.0245	0.0366	5.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	4.6354	4.6354	1.3700e-003	0.0000	4.6642
Paving	6.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.3600e-003	0.0245	0.0366	5.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	4.6354	4.6354	1.3700e-003	0.0000	4.6642

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	2.5000e-004	2.6400e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3851	0.3851	2.0000e-005	0.0000	0.3855
Total	1.7000e-004	2.5000e-004	2.6400e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3851	0.3851	2.0000e-005	0.0000	0.3855

3.5 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2318	1.9735	1.1229	1.7300e-003		0.1292	0.1292		0.1221	0.1221	0.0000	158.5426	158.5426	0.0393	0.0000	159.3667
Total	0.2318	1.9735	1.1229	1.7300e-003		0.1292	0.1292		0.1221	0.1221	0.0000	158.5426	158.5426	0.0393	0.0000	159.3667

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0537	0.5409	0.6293	1.0000e-003	0.0282	0.0102	0.0384	8.0500e-003	9.3900e-003	0.0175	0.0000	92.5701	92.5701	8.3000e-004	0.0000	92.5875
Worker	0.0581	0.0849	0.8805	1.5800e-003	0.1281	1.2300e-003	0.1294	0.0340	1.1200e-003	0.0352	0.0000	128.4849	128.4849	7.6700e-003	0.0000	128.6460
Total	0.1118	0.6258	1.5099	2.5800e-003	0.1564	0.0114	0.1678	0.0421	0.0105	0.0526	0.0000	221.0550	221.0550	8.5000e-003	0.0000	221.2335

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0424	0.8813	1.1168	1.7300e-003		0.0527	0.0527		0.0527	0.0527	0.0000	158.5424	158.5424	0.0393	0.0000	159.3665
Total	0.0424	0.8813	1.1168	1.7300e-003		0.0527	0.0527		0.0527	0.0527	0.0000	158.5424	158.5424	0.0393	0.0000	159.3665

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0537	0.5409	0.6293	1.0000e-003	0.0229	0.0102	0.0331	6.7500e-003	9.3900e-003	0.0161	0.0000	92.5701	92.5701	8.3000e-004	0.0000	92.5875
Worker	0.0581	0.0849	0.8805	1.5800e-003	0.0993	1.2300e-003	0.1005	0.0269	1.1200e-003	0.0281	0.0000	128.4849	128.4849	7.6700e-003	0.0000	128.6460
Total	0.1118	0.6258	1.5099	2.5800e-003	0.1222	0.0114	0.1336	0.0337	0.0105	0.0442	0.0000	221.0550	221.0550	8.5000e-003	0.0000	221.2335

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Off-Road	0.1681	1.4532	0.8508	1.3200e-003		0.0939	0.0939		0.0886	0.0886	0.0000	120.4026	120.4026	0.0294	0.0000	121.0201
Total	0.1681	1.4532	0.8508	1.3200e-003		0.0939	0.0939		0.0886	0.0886	0.0000	120.4026	120.4026	0.0294	0.0000	121.0201

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0354	0.3608	0.4401	7.6000e-004	0.0216	5.9900e-003	0.0276	6.1600e-003	5.5100e-003	0.0117	0.0000	70.0050	70.0050	5.6000e-004	0.0000	70.0167
Worker	0.0398	0.0583	0.6057	1.2000e-003	0.0980	8.8000e-004	0.0989	0.0260	8.1000e-004	0.0268	0.0000	95.0876	95.0876	5.3700e-003	0.0000	95.2004
Total	0.0752	0.4191	1.0458	1.9600e-003	0.1196	6.8700e-003	0.1264	0.0322	6.3200e-003	0.0385	0.0000	165.0926	165.0926	5.9300e-003	0.0000	165.2171

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0324	0.6740	0.8540	1.3200e-003		0.0403	0.0403		0.0403	0.0403	0.0000	120.4024	120.4024	0.0294	0.0000	121.0200
Total	0.0324	0.6740	0.8540	1.3200e-003		0.0403	0.0403		0.0403	0.0403	0.0000	120.4024	120.4024	0.0294	0.0000	121.0200

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0354	0.3608	0.4401	7.6000e-004	0.0175	5.9900e-003	0.0235	5.1600e-003	5.5100e-003	0.0107	0.0000	70.0050	70.0050	5.6000e-004	0.0000	70.0167
Worker	0.0398	0.0583	0.6057	1.2000e-003	0.0759	8.8000e-004	0.0768	0.0206	8.1000e-004	0.0214	0.0000	95.0876	95.0876	5.3700e-003	0.0000	95.2004
Total	0.0752	0.4191	1.0458	1.9600e-003	0.0934	6.8700e-003	0.1003	0.0258	6.3200e-003	0.0321	0.0000	165.0926	165.0926	5.9300e-003	0.0000	165.2171

3.6 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4366					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5900e-003	0.0597	0.0413	6.0000e-005		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	5.4895	5.4895	7.8000e-004	0.0000	5.5059
Total	1.4462	0.0597	0.0413	6.0000e-005		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	5.4895	5.4895	7.8000e-004	0.0000	5.5059

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9200e-003	7.1900e-003	0.0746	1.3000e-004	0.0109	1.0000e-004	0.0110	2.8800e-003	1.0000e-004	2.9800e-003	0.0000	10.8804	10.8804	6.5000e-004	0.0000	10.8940
Total	4.9200e-003	7.1900e-003	0.0746	1.3000e-004	0.0109	1.0000e-004	0.0110	2.8800e-003	1.0000e-004	2.9800e-003	0.0000	10.8804	10.8804	6.5000e-004	0.0000	10.8940

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4366					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2800e-003	0.0292	0.0394	6.0000e-005		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	5.4895	5.4895	7.8000e-004	0.0000	5.5059
Total	1.4379	0.0292	0.0394	6.0000e-005		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	5.4895	5.4895	7.8000e-004	0.0000	5.5059

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9200e-003	7.1900e-003	0.0746	1.3000e-004	8.4000e-003	1.0000e-004	8.5100e-003	2.2800e-003	1.0000e-004	2.3800e-003	0.0000	10.8804	10.8804	6.5000e-004	0.0000	10.8940

Total	4.9200e-003	7.1900e-003	0.0746	1.3000e-004	8.4000e-003	1.0000e-004	8.5100e-003	2.2800e-003	1.0000e-004	2.3800e-003	0.0000	10.8804	10.8804	6.5000e-004	0.0000	10.8940
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3.6 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1002	0.0742	1.2000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	9.9577	9.9577	1.3000e-003	0.0000	9.9849
Total	2.6218	0.1002	0.0742	1.2000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	9.9577	9.9577	1.3000e-003	0.0000	9.9849

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9900e-003	0.0117	0.1217	2.4000e-004	0.0197	1.8000e-004	0.0199	5.2300e-003	1.6000e-004	5.3900e-003	0.0000	19.1006	19.1006	1.0800e-003	0.0000	19.1232
Total	7.9900e-003	0.0117	0.1217	2.4000e-004	0.0197	1.8000e-004	0.0199	5.2300e-003	1.6000e-004	5.3900e-003	0.0000	19.1006	19.1006	1.0800e-003	0.0000	19.1232

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3200e-003	0.0529	0.0715	1.2000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	9.9577	9.9577	1.3000e-003	0.0000	9.9849
Total	2.6083	0.0529	0.0715	1.2000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	9.9577	9.9577	1.3000e-003	0.0000	9.9849

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9900e-003	0.0117	0.1217	2.4000e-004	0.0153	1.8000e-004	0.0154	4.1400e-003	1.6000e-004	4.3000e-003	0.0000	19.1006	19.1006	1.0800e-003	0.0000	19.1232
Total	7.9900e-003	0.0117	0.1217	2.4000e-004	0.0153	1.8000e-004	0.0154	4.1400e-003	1.6000e-004	4.3000e-003	0.0000	19.1006	19.1006	1.0800e-003	0.0000	19.1232

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

Mitigated	1.3282	12.2651	15.9263	0.0400	2.0598	0.2221	2.2819	0.5637	0.2042	0.7679	0.0000	3,477.0828	3,477.0828	0.0680	0.0000	3,478.5114
Unmitigated	1.3282	12.2651	15.9263	0.0400	2.0598	0.2221	2.2819	0.5637	0.2042	0.7679	0.0000	3,477.0828	3,477.0828	0.0680	0.0000	3,478.5114

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	320.88	125.16	52.08	1,127,085	1,127,085
Office Park	324.80	48.38	22.42	818,008	818,008
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	815.60	593.37	593.37	3,223,299	3,223,299
Total	1,461.27	766.91	667.87	5,168,391	5,168,391

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
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	40.00	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.650000	0.000000	0.000000	0.000000	0.000000	0.000000	0.200000	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	762.4121	762.4121	0.0351	7.2500e-003	765.3958
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	762.4121	762.4121	0.0351	7.2500e-003	765.3958
NaturalGas Mitigated	0.0113	0.1026	0.0861	6.2000e-004	7.7900e-003	7.7900e-003	7.7900e-003	7.7900e-003	7.7900e-003	7.7900e-003	0.0000	111.6411	111.6411	2.1400e-003	2.0500e-003	112.3206
NaturalGas Unmitigated	0.0113	0.1026	0.0861	6.2000e-004	7.7900e-003	7.7900e-003	7.7900e-003	7.7900e-003	7.7900e-003	7.7900e-003	0.0000	111.6411	111.6411	2.1400e-003	2.0500e-003	112.3206

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Office Park	303555	1.6400e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	16.1989	16.1989	3.1000e-004	3.0000e-004	16.2974
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	208481	1.1200e-003	0.0102	8.5800e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1253	11.1253	2.1000e-004	2.0000e-004	11.1931
Manufacturing	1.58004e+006	8.5200e-003	0.0775	0.0651	4.6000e-004		5.8900e-003	5.8900e-003		5.8900e-003	5.8900e-003	0.0000	84.3170	84.3170	1.6200e-003	1.5500e-003	84.8301
Total		0.0113	0.1026	0.0861	6.1000e-004		7.8000e-003	7.8000e-003		7.8000e-003	7.8000e-003	0.0000	111.6411	111.6411	2.1400e-003	2.0500e-003	112.3206

Mitigated

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

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	0.0000
Unrefrigerated Warehouse-No	208481	1.1200e-003	0.0102	8.5800e-003	6.0000e-005	7.8000e-004	7.8000e-004	7.8000e-004	7.8000e-004	0.0000	11.1253	11.1253	2.1000e-004	2.0000e-004	11.1931	
Manufacturing	1.58004e+006	8.5200e-003	0.0775	0.0651	4.6000e-004	5.8900e-003	5.8900e-003	5.8900e-003	5.8900e-003	0.0000	84.3170	84.3170	1.6200e-003	1.5500e-003	84.8301	
Office Park	303555	1.6400e-003	0.0149	0.0125	9.0000e-005	1.1300e-003	1.1300e-003	1.1300e-003	1.1300e-003	0.0000	16.1989	16.1989	3.1000e-004	3.0000e-004	16.2974	
Total		0.0113	0.1026	0.0861	6.1000e-004	7.8000e-003	7.8000e-003	7.8000e-003	7.8000e-003	0.0000	111.6411	111.6411	2.1400e-003	2.0500e-003	112.3206	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.0122e+006	289.6581	0.0133	2.7500e-003	290.7917
Office Park	469050	134.2266	6.1700e-003	1.2800e-003	134.7519
Parking Lot	184096	52.6822	2.4200e-003	5.0000e-004	52.8884
Unrefrigerated Warehouse-No	998876	285.8452	0.0131	2.7200e-003	286.9639
Total		762.4121	0.0350	7.2500e-003	765.3958

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.0122e+006	289.6581	0.0133	2.7500e-003	290.7917
Office Park	469050	134.2266	6.1700e-003	1.2800e-003	134.7519

Parking Lot	184096	52.6822	2.4200e-003	5.0000e-004	52.8884
Unrefrigerated Warehouse-No	998876	285.8452	0.0131	2.7200e-003	286.9639
Total		762.4121	0.0350	7.2500e-003	765.3958

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3993	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0215	0.0215	6.0000e-005	0.0000	0.0228
Unmitigated	2.3993	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0215	0.0215	6.0000e-005	0.0000	0.0228

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0215	0.0215	6.0000e-005	0.0000	0.0228
Total	2.3993	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0215	0.0215	6.0000e-005	0.0000	0.0228

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.4043						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9939						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0114	0.0000			4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0215	0.0215	6.0000e-005	0.0000	0.0228
Total	2.3993	1.1000e-004	0.0114	0.0000			4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0215	0.0215	6.0000e-005	0.0000	0.0228

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	324.1794	2.5435	0.0625	396.9655
Unmitigated	324.1794	2.5439	0.0626	397.0048

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	19.425 / 0	78.5437	0.6363	0.0156	96.7523
Office Park	5.24315 / 3.21354	31.4172	0.1722	4.3200e-003	36.3720
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	52.9794 / 0	214.2186	1.7354	0.0426	263.8805
Total		324.1794	2.5439	0.0626	397.0048

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	19.425 / 0	78.5437	0.6362	0.0156	96.7425
Office Park	5.24315 / 3.21354	31.4172	0.1722	4.3100e-003	36.3693
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	52.9794 / 0	214.2186	1.7351	0.0426	263.8537
Total		324.1794	2.5435	0.0625	396.9655

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	70.4277	4.1622	0.0000	157.8331
Unmitigated	70.4277	4.1622	0.0000	157.8331

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	104.16	21.1435	1.2496	0.0000	47.3840
Office Park	27.44	5.5701	0.3292	0.0000	12.4829
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	215.35	43.7141	2.5834	0.0000	97.9661
Total		70.4277	4.1622	0.0000	157.8330

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

Manufacturing	104.16	21.1435	1.2496	0.0000	47.3840
Office Park	27.44	5.5701	0.3292	0.0000	12.4829
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	215.35	43.7141	2.5834	0.0000	97.9661
Total		70.4277	4.1622	0.0000	157.8330

9.0 Operational Offroad

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

Building Construction (2014 - 2015)

- 180 days.

Equipment:

<u>Quantity</u>	<u>Type</u>	<u>Hours of Daily Operation</u>
1	Concrete/Industrial Saw	4
1	Crawler Tractor	4
1	Excavator	4
1	Trencher	4
1	Crane	7
2	Forklifts	8
1	Generator Set	8
2	Tractors/Loaders/Backhoes	7
1	Welder	8

Architectural Coating (2017)

- 121 days.

Equipment (CALEEMOD Default):

<u>Quantity</u>	<u>Type</u>	<u>Hours of Daily Operation</u>
1	Air Compressor	6

OPERATIONS

- 29,500 square feet of Office Park.
- 84,000 square feet of Industrial - Manufacturing.
- 229,100 square feet of Industrial – Unrefrigerated Warehouse – No Retail.
- 523 parking spaces
- 1,462 daily trips.

Azusa 10th Street Center - High Cube Alt
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	342.60	1000sqft	7.87	342,600.00	0
Parking Lot	744.00	Space	6.70	297,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2015
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Operational run
- Off-road Equipment -
- Off-road Equipment - Construction equip
- Trips and VMT - Material will be balanced on-site
- Demolition - 5800 sf demo
- Grading - Site acreage
- Vehicle Trips - trip rates per traffic report
- Vehicle Emission Factors - Fleet Mix adjusted for 71% auto, 22% medium trucks, 7% heavy trucks - per Stantec
- Vehicle Emission Factors - Fleet mix per Stantec

Vehicle Emission Factors - Per Stantec

Construction Off-road Equipment Mitigation - Water three times daily, tier 3 mitigation

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	300.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00

tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	WD_TR	3.82	1.68

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					
2015	5.8920	41.9005	49.3957	0.0878	3.6628	2.3216	5.9844	0.9842	2.1787	3.1629	0.0000	8,320.280	8,320.280	0.8713	0.0000	8,338.577
												1	1			4
Total	5.8920	41.9005	49.3957	0.0878	3.6628	2.3216	5.9844	0.9842	2.1787	3.1629	0.0000	8,320.280	8,320.280	0.8713	0.0000	8,338.577
												1	1			4

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					
2015	5.8920	41.9005	49.3957	0.0878	3.6628	2.3216	5.9844	0.9842	2.1787	3.1629	0.0000	8,320.280 1	8,320.280 1	0.8713	0.0000	8,338.577 4
Total	5.8920	41.9005	49.3957	0.0878	3.6628	2.3216	5.9844	0.9842	2.1787	3.1629	0.0000	8,320.280 1	8,320.280 1	0.8713	0.0000	8,338.577 4

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

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	14.9193	1.1100e-003	0.1148	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Energy	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4
Mobile	3.7702	37.2623	48.2097	0.1588	9.4688	0.7990	10.2678	2.5866	0.7347	3.3213		14,984.82 83	14,984.82 83	0.3267		14,991.68 87
Total	18.8799	38.9943	49.7784	0.1692	9.4688	0.9309	10.3997	2.5866	0.8667	3.4533		17,062.19 94	17,062.19 94	0.3672	0.0381	17,081.71 54

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	14.9193	1.1100e-003	0.1148	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Energy	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.1333	2,077.1333	0.0398	0.0381	2,089.7744
Mobile	3.7702	37.2623	48.2097	0.1588	9.4688	0.7990	10.2678	2.5866	0.7347	3.3213		14,984.8283	14,984.8283	0.3267		14,991.6887
Total	18.8799	38.9943	49.7784	0.1692	9.4688	0.9309	10.3997	2.5866	0.8667	3.4533		17,062.1994	17,062.1994	0.3672	0.0381	17,081.7154

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/12/2015	3/12/2015	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	269.00	105.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577	2,689.577	0.6748		2,703.748
												1	1			3
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577	2,689.577	0.6748		2,703.748
												1	1			3

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	0.9923	10.3180	11.3823	0.0229	0.6560	0.1784	0.8344	0.1868	0.1641	0.3509		2,316.5377	2,316.5377	0.0182		2,316.9200
Worker	1.2406	1.5525	19.2689	0.0381	3.0068	0.0265	3.0333	0.7974	0.0243	0.8217		3,314.1653	3,314.1653	0.1783		3,317.9092
Total	2.2329	11.8706	30.6512	0.0610	3.6628	0.2049	3.8677	0.9842	0.1883	1.1725		5,630.7030	5,630.7030	0.1965		5,634.8291

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748		2,703.7483

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	0.9923	10.3180	11.3823	0.0229	0.6560	0.1784	0.8344	0.1868	0.1641	0.3509		2,316.5377	2,316.5377	0.0182		2,316.9200

Worker	1.2406	1.5525	19.2689	0.0381	3.0068	0.0265	3.0333	0.7974	0.0243	0.8217		3,314.165 3	3,314.165 3	0.1783		3,317.909 2
Total	2.2329	11.8706	30.6512	0.0610	3.6628	0.2049	3.8677	0.9842	0.1883	1.1725		5,630.703 0	5,630.703 0	0.1965		5,634.829 1

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	3.7702	37.2623	48.2097	0.1588	9.4688	0.7990	10.2678	2.5866	0.7347	3.3213		14,984.82 83	14,984.82 83	0.3267		14,991.68 87
Unmitigated	3.7702	37.2623	48.2097	0.1588	9.4688	0.7990	10.2678	2.5866	0.7347	3.3213		14,984.82 83	14,984.82 83	0.3267		14,991.68 87

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	575.57	510.47	212.41	3,822,713	3,822,713
Parking Lot	0.00	0.00	0.00		
Total	575.57	510.47	212.41	3,822,713	3,822,713

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
Manufacturing	16.60	40.00	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
-----	------	------	-----	------	------	-----	-----	------	------	-----	------	----

0.710000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.220000	0.070000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4
NaturalGas Unmitigated	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4

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					
Manufacturing	17655.6	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4
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		0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	17.6556	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.1333	2,077.1333	0.0398	0.0381	2,089.7744
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		0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.1333	2,077.1333	0.0398	0.0381	2,089.7744

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.9193	1.1100e-003	0.1148	1.0000e-005	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Unmitigated	14.9193	1.1100e-003	0.1148	1.0000e-005	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523

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	2.2320				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.6760				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0113	1.1100e-003	0.1148	1.0000e-005	4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Total	14.9193	1.1100e-003	0.1148	1.0000e-005	4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523

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	2.2320					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	12.6760					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	0.0113	1.1100e-003	0.1148	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004			0.2523
Total	14.9193	1.1100e-003	0.1148	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004			0.2523

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



Azusa 10th Street Center - High Cube Alt
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	342.60	1000sqft	7.87	342,600.00	0
Parking Lot	744.00	Space	6.70	297,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2015
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Operational run
- Off-road Equipment -
- Off-road Equipment - Construction equip
- Trips and VMT - Material will be balanced on-site
- Demolition - 5800 sf demo
- Grading - Site acreage
- Vehicle Trips - trip rates per traffic report
- Vehicle Emission Factors - Fleet Mix adjusted for 71% auto, 22% medium trucks, 7% heavy trucks - per Stantec
- Vehicle Emission Factors - Fleet mix per Stantec

Vehicle Emission Factors - Per Stantec

Construction Off-road Equipment Mitigation - Water three times daily, tier 3 mitigation

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	300.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00

tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	WD_TR	3.82	1.68

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					
2015	6.0198	42.3219	50.0670	0.0853	3.6628	2.3238	5.9866	0.9842	2.1807	3.1649	0.0000	8,095.4728	8,095.4728	0.8718	0.0000	8,113.7808
Total	6.0198	42.3219	50.0670	0.0853	3.6628	2.3238	5.9866	0.9842	2.1807	3.1649	0.0000	8,095.4728	8,095.4728	0.8718	0.0000	8,113.7808

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					
2015	6.0198	42.3219	50.0670	0.0853	3.6628	2.3238	5.9866	0.9842	2.1807	3.1649	0.0000	8,095.4728	8,095.4728	0.8718	0.0000	8,113.7808
Total	6.0198	42.3219	50.0670	0.0853	3.6628	2.3238	5.9866	0.9842	2.1807	3.1649	0.0000	8,095.4728	8,095.4728	0.8718	0.0000	8,113.7808

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

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	14.9193	1.1100e-003	0.1148	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Energy	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.1333	2,077.1333	0.0398	0.0381	2,089.7744
Mobile	3.9032	38.6731	48.4179	0.1540	9.4688	0.8026	10.2714	2.5866	0.7381	3.3247		14,570.7671	14,570.7671	0.3273		14,577.6400
Total	19.0129	40.4051	49.9866	0.1644	9.4688	0.9346	10.4034	2.5866	0.8700	3.4567		16,648.1382	16,648.1382	0.3678	0.0381	16,667.6666

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	14.9193	1.1100e-003	0.1148	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Energy	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.1333	2,077.1333	0.0398	0.0381	2,089.7744
Mobile	3.9032	38.6731	48.4179	0.1540	9.4688	0.8026	10.2714	2.5866	0.7381	3.3247		14,570.7671	14,570.7671	0.3273		14,577.6400
Total	19.0129	40.4051	49.9866	0.1644	9.4688	0.9346	10.4034	2.5866	0.8700	3.4567		16,648.1382	16,648.1382	0.3678	0.0381	16,667.6666

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/12/2015	3/12/2015	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	269.00	105.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577	2,689.577	0.6748		2,703.748
												1	1			3
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577	2,689.577	0.6748		2,703.748
												1	1			3

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	1.0899	10.5862	13.5000	0.0227	0.6560	0.1806	0.8366	0.1868	0.1661	0.3529		2,297.214 1	2,297.214 1	0.0187			2,297.607 1
Worker	1.2708	1.7058	17.8224	0.0357	3.0068	0.0265	3.0333	0.7974	0.0243	0.8217		3,108.681 5	3,108.681 5	0.1783			3,112.425 4
Total	2.3608	12.2920	31.3225	0.0585	3.6628	0.2071	3.8699	0.9842	0.1903	1.1745		5,405.895 7	5,405.895 7	0.1970			5,410.032 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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.577 1	2,689.577 1	0.6748			2,703.748 3
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.577 1	2,689.577 1	0.6748			2,703.748 3

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	1.0899	10.5862	13.5000	0.0227	0.6560	0.1806	0.8366	0.1868	0.1661	0.3529		2,297.214 1	2,297.214 1	0.0187			2,297.607 1

Worker	1.2708	1.7058	17.8224	0.0357	3.0068	0.0265	3.0333	0.7974	0.0243	0.8217		3,108.681	3,108.681	0.1783		3,112.425
												5	5			4
Total	2.3608	12.2920	31.3225	0.0585	3.6628	0.2071	3.8699	0.9842	0.1903	1.1745		5,405.895	5,405.895	0.1970		5,410.032
												7	7			5

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	3.9032	38.6731	48.4179	0.1540	9.4688	0.8026	10.2714	2.5866	0.7381	3.3247		14,570.7671	14,570.7671	0.3273		14,577.6400
Unmitigated	3.9032	38.6731	48.4179	0.1540	9.4688	0.8026	10.2714	2.5866	0.7381	3.3247		14,570.7671	14,570.7671	0.3273		14,577.6400

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	575.57	510.47	212.41	3,822,713	3,822,713
Parking Lot	0.00	0.00	0.00		
Total	575.57	510.47	212.41	3,822,713	3,822,713

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
Manufacturing	16.60	40.00	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
-----	------	------	-----	------	------	-----	-----	------	------	-----	------	----

0.710000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.220000	0.070000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4
NaturalGas Unmitigated	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4

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					
Manufacturing	17655.6	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4
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		0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.133 3	2,077.133 3	0.0398	0.0381	2,089.774 4

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	17.6556	0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.1333	2,077.1333	0.0398	0.0381	2,089.7744
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		0.1904	1.7309	1.4540	0.0104		0.1316	0.1316		0.1316	0.1316		2,077.1333	2,077.1333	0.0398	0.0381	2,089.7744

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.9193	1.1100e-003	0.1148	1.0000e-005	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Unmitigated	14.9193	1.1100e-003	0.1148	1.0000e-005	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523

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	2.2320				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.6760				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0113	1.1100e-003	0.1148	1.0000e-005	4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Total	14.9193	1.1100e-003	0.1148	1.0000e-005	4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523

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	2.2320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.6760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0113	1.1100e-003	0.1148	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523
Total	14.9193	1.1100e-003	0.1148	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2378	0.2378	6.9000e-004		0.2523

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



**Azusa 10th Street Center - High Cube Alt
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	342.60	1000sqft	7.87	342,600.00	0
Parking Lot	744.00	Space	6.70	297,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2015
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Operational run
- Off-road Equipment -
- Off-road Equipment - Construction equip
- Trips and VMT - Material will be balanced on-site
- Demolition - 5800 sf demo
- Grading - Site acreage
- Vehicle Trips - trip rates per traffic report
- Vehicle Emission Factors - Fleet Mix adjusted for 71% auto, 22% medium trucks, 7% heavy trucks - per Stantec
- Vehicle Emission Factors - Fleet mix per Stantec

Vehicle Emission Factors - Per Stantec

Construction Off-road Equipment Mitigation - Water three times daily, tier 3 mitigation

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	300.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	HHD	0.03	0.07
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDA	0.52	0.71
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD1	0.04	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	LHD2	6.6390e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MCY	4.3330e-003	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00

tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MH	2.0790e-003	0.00
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	OBUS	1.9180e-003	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	SBUS	5.9600e-004	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleEF	UBUS	2.5170e-003	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	WD_TR	3.82	1.68

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	2.9600e-003	0.0213	0.0251	4.0000e-005	1.8000e-003	1.1600e-003	2.9600e-003	4.8000e-004	1.0900e-003	1.5700e-003	0.0000	3.6991	3.6991	4.0000e-004	0.0000	3.7074
Total	2.9600e-003	0.0213	0.0251	4.0000e-005	1.8000e-003	1.1600e-003	2.9600e-003	4.8000e-004	1.0900e-003	1.5700e-003	0.0000	3.6991	3.6991	4.0000e-004	0.0000	3.7074

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	2.9600e-003	0.0213	0.0251	4.0000e-005	1.8000e-003	1.1600e-003	2.9600e-003	4.8000e-004	1.0900e-003	1.5700e-003	0.0000	3.6991	3.6991	4.0000e-004	0.0000	3.7074
Total	2.9600e-003	0.0213	0.0251	4.0000e-005	1.8000e-003	1.1600e-003	2.9600e-003	4.8000e-004	1.0900e-003	1.5700e-003	0.0000	3.6991	3.6991	4.0000e-004	0.0000	3.7074

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7221	1.4000e-004	0.0143	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0270	0.0270	8.0000e-005	0.0000	0.0286
Energy	0.0348	0.3159	0.2654	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	1,600.2277	1,600.2277	0.0643	0.0183	1,607.2373
Mobile	0.6197	6.4077	7.8990	0.0252	1.5133	0.1301	1.6434	0.4141	0.1196	0.5337	0.0000	2,163.5510	2,163.5510	0.0482	0.0000	2,164.5628
Waste						0.0000	0.0000		0.0000	0.0000	86.2346	0.0000	86.2346	5.0963	0.0000	193.2573
Water						0.0000	0.0000		0.0000	0.0000	25.1348	295.2112	320.3460	2.5952	0.0638	394.6113

Total	3.3766	6.7237	8.1787	0.0271	1.5133	0.1541	1.6674	0.4141	0.1437	0.5578	111.3695	4,059.0169	4,170.3863	7.8041	0.0820	4,359.6974
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Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7221	1.4000e-004	0.0143	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0270	0.0270	8.0000e-005	0.0000	0.0286
Energy	0.0348	0.3159	0.2654	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	1,600.2277	1,600.2277	0.0643	0.0183	1,607.2373
Mobile	0.6197	6.4077	7.8990	0.0252	1.5133	0.1301	1.6434	0.4141	0.1196	0.5337	0.0000	2,163.5510	2,163.5510	0.0482	0.0000	2,164.5628
Waste						0.0000	0.0000		0.0000	0.0000	86.2346	0.0000	86.2346	5.0963	0.0000	193.2573
Water						0.0000	0.0000		0.0000	0.0000	25.1348	295.2112	320.3460	2.5947	0.0637	394.5712
Total	3.3766	6.7237	8.1787	0.0271	1.5133	0.1541	1.6674	0.4141	0.1437	0.5578	111.3695	4,059.0169	4,170.3863	7.8036	0.0819	4,359.6573

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	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	Building Construction	Building Construction	3/12/2015	3/12/2015	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	269.00	105.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8300e-003	0.0150	9.3700e-003	1.0000e-005		1.0600e-003	1.0600e-003		1.0000e-003	1.0000e-003	0.0000	1.2200	1.2200	3.1000e-004	0.0000	1.2264

Total	1.8300e-003	0.0150	9.3700e-003	1.0000e-005		1.0600e-003	1.0600e-003		1.0000e-003	1.0000e-003	0.0000	1.2200	1.2200	3.1000e-004	0.0000	1.2264
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.3000e-004	5.4000e-003	6.5800e-003	1.0000e-005	3.2000e-004	9.0000e-005	4.1000e-004	9.0000e-005	8.0000e-005	1.7000e-004	0.0000	1.0471	1.0471	1.0000e-005	0.0000	1.0473
Worker	6.0000e-004	8.8000e-004	9.1200e-003	2.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.4320	1.4320	8.0000e-005	0.0000	1.4337
Total	1.1300e-003	6.2800e-003	0.0157	3.0000e-005	1.8000e-003	1.0000e-004	1.9000e-003	4.8000e-004	9.0000e-005	5.7000e-004	0.0000	2.4791	2.4791	9.0000e-005	0.0000	2.4810

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8300e-003	0.0150	9.3700e-003	1.0000e-005		1.0600e-003	1.0600e-003		1.0000e-003	1.0000e-003	0.0000	1.2200	1.2200	3.1000e-004	0.0000	1.2264
Total	1.8300e-003	0.0150	9.3700e-003	1.0000e-005		1.0600e-003	1.0600e-003		1.0000e-003	1.0000e-003	0.0000	1.2200	1.2200	3.1000e-004	0.0000	1.2264

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.3000e-004	5.4000e-003	6.5800e-003	1.0000e-005	3.2000e-004	9.0000e-005	4.1000e-004	9.0000e-005	8.0000e-005	1.7000e-004	0.0000	1.0471	1.0471	1.0000e-005	0.0000	1.0473
Worker	6.0000e-004	8.8000e-004	9.1200e-003	2.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.4320	1.4320	8.0000e-005	0.0000	1.4337
Total	1.1300e-003	6.2800e-003	0.0157	3.0000e-005	1.8000e-003	1.0000e-004	1.9000e-003	4.8000e-004	9.0000e-005	5.7000e-004	0.0000	2.4791	2.4791	9.0000e-005	0.0000	2.4810

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6197	6.4077	7.8990	0.0252	1.5133	0.1301	1.6434	0.4141	0.1196	0.5337	0.0000	2,163.5510	2,163.5510	0.0482	0.0000	2,164.5628
Unmitigated	0.6197	6.4077	7.8990	0.0252	1.5133	0.1301	1.6434	0.4141	0.1196	0.5337	0.0000	2,163.5510	2,163.5510	0.0482	0.0000	2,164.5628

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	575.57	510.47	212.41	3,822,713	3,822,713
Parking Lot	0.00	0.00	0.00		
Total	575.57	510.47	212.41	3,822,713	3,822,713

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
Manufacturing	16.60	40.00	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.710000	0.000000	0.000000	0.000000	0.000000	0.000000	0.220000	0.070000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,256.3350	1,256.3350	0.0578	0.0120	1,261.2517
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,256.3350	1,256.3350	0.0578	0.0120	1,261.2517
NaturalGas Mitigated	0.0348	0.3159	0.2654	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.8927	343.8927	6.5900e-003	6.3000e-003	345.9856
NaturalGas Unmitigated	0.0348	0.3159	0.2654	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.8927	343.8927	6.5900e-003	6.3000e-003	345.9856

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Manufacturing	6.44431e+006	0.0348	0.3159	0.2654	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.8927	343.8927	6.5900e-003	6.3000e-003	345.9856
Total		0.0348	0.3159	0.2654	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.8927	343.8927	6.5900e-003	6.3000e-003	345.9856

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Manufacturing	6.44431e+006	0.0348	0.3159	0.2654	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.8927	343.8927	6.5900e-003	6.3000e-003	345.9856
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0348	0.3159	0.2654	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.8927	343.8927	6.5900e-003	6.3000e-003	345.9856

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	4.12833e+006	1,181.3914	0.0543	0.0112	1,186.0148
Parking Lot	261888	74.9437	3.4400e-003	7.1000e-004	75.2370
Total		1,256.3350	0.0577	0.0120	1,261.2517

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	4.12833e+006	1,181.3914	0.0543	0.0112	1,186.0148
Parking Lot	261888	74.9437	3.4400e-003	7.1000e-004	75.2370
Total		1,256.3350	0.0577	0.0120	1,261.2517

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7221	1.4000e-004	0.0143	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0270	0.0270	8.0000e-005	0.0000	0.0286
Unmitigated	2.7221	1.4000e-004	0.0143	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0270	0.0270	8.0000e-005	0.0000	0.0286

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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SubCategory	tons/yr								MT/yr							
Architectural Coating	0.4073					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	2.3134					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	1.4200e-003	1.4000e-004	0.0143	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0270	0.0270	8.0000e-005	0.0000	0.0286
Total	2.7221	1.4000e-004	0.0143	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0270	0.0270	8.0000e-005	0.0000	0.0286

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.4073						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	2.3134						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	1.4200e-003	1.4000e-004	0.0143	0.0000			5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0270	0.0270	8.0000e-005	0.0000	0.0286
Total	2.7221	1.4000e-004	0.0143	0.0000			5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0270	0.0270	8.0000e-005	0.0000	0.0286

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	320.3460	2.5947	0.0637	394.5712

Unmitigated	320.3460	2.5952	0.0638	394.6113
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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	79.2262 / 0	320.3460	2.5952	0.0638	394.6113
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		320.3460	2.5952	0.0638	394.6113

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	79.2262 / 0	320.3460	2.5947	0.0637	394.5712
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		320.3460	2.5947	0.0637	394.5712

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	86.2346	5.0963	0.0000	193.2573
Mitigated	86.2346	5.0963	0.0000	193.2573

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	424.82	86.2346	5.0963	0.0000	193.2573
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		86.2346	5.0963	0.0000	193.2573

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	424.82	86.2346	5.0963	0.0000	193.2573

Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		86.2346	5.0963	0.0000	193.2573

9.0 Operational Offroad

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