

Eastvale Marketplace Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.00	1000sqft	0.07	3,000.00	0
Parking Lot	393.00	Space	3.54	157,200.00	0
Fast Food Restaurant with Drive Thru	3.50	1000sqft	0.08	3,500.00	0
Fast Food Restaurant with Drive Thru	3.50	1000sqft	0.08	3,500.00	0
Automobile Care Center	10.14	1000sqft	0.23	10,140.00	0
Strip Mall	51.33	1000sqft	1.18	51,332.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	490.64	CH4 Intensity (lb/MW hr)	0.021	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE's 2017-2020 Intensity Factors

Land Use - Unit amounts per site plan

Construction Phase - Building construction, site paving, and building painting assumed to occur simultaneously

Grading - Project site = 7.64 acres

Energy Use - Using historical energy use data

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	100
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	PhaseEndDate	11/16/2017	12/29/2017
tblConstructionPhase	PhaseEndDate	11/16/2017	12/29/2016
tblConstructionPhase	PhaseStartDate	12/30/2016	2/12/2017
tblConstructionPhase	PhaseStartDate	12/30/2016	2/12/2016
tblGrading	AcresOfGrading	10.00	7.64
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.021
tblProjectCharacteristics	CO2IntensityFactor	630.89	490.64
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2020

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0115	0.0115	3.0000e-005	0.0000	0.0122
Energy											0.0000	473.5474	473.5474	0.0171	5.2400e-003	475.5294
Mobile											0.0000	3,582.7110	3,582.7110	0.1153	0.0000	3,585.1313
Waste											35.7386	0.0000	35.7386	2.1121	0.0000	80.0925
Water											2.2207	28.0071	30.2277	0.2293	5.6100e-003	36.7831
Total											37.9593	4,084.2769	4,122.2362	2.4737	0.0109	4,177.5485

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0115	0.0115	3.0000e-005	0.0000	0.0122
Energy											0.0000	473.5474	473.5474	0.0171	5.2400e-003	475.5294
Mobile											0.0000	3,351.9544	3,351.9544	0.1089	0.0000	3,354.2402
Waste											35.7386	0.0000	35.7386	2.1121	0.0000	80.0925
Water											2.2207	28.0071	30.2277	0.2293	5.6100e-003	36.7806
Total											37.9593	3,853.5204	3,891.4797	2.4673	0.0109	3,946.6550

	ROG	NOx	CO	SO2	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	5.65	5.60	0.26	0.00	5.53

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/11/2016	5	20	
3	Building Construction	Building Construction	2/12/2016	12/29/2016	5	230	
4	Paving	Paving	2/12/2016	12/29/2016	5	230	
5	Architectural Coating	Architectural Coating	2/12/2017	12/29/2017	5	230	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7.64

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,282; Non-Residential Outdoor: 38,094 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	37.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	18.4386	18.4386	5.5600e-003	0.0000	18.5554
Total											0.0000	18.4386	18.4386	5.5600e-003	0.0000	18.5554

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.8392	0.8392	4.0000e-005	0.0000	0.8400
Total											0.0000	0.8392	0.8392	4.0000e-005	0.0000	0.8400

3.2 Site Preparation - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	18.4385	18.4385	5.5600e-003	0.0000	18.5553
Total											0.0000	18.4385	18.4385	5.5600e-003	0.0000	18.5553

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.8392	0.8392	4.0000e-005	0.0000	0.8400
Total											0.0000	0.8392	0.8392	4.0000e-005	0.0000	0.8400

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.0664	28.0664	8.4700e-003	0.0000	28.2442
Total											0.0000	28.0664	28.0664	8.4700e-003	0.0000	28.2442

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	1.3986	1.3986	7.0000e-005	0.0000	1.4000
Total											0.0000	1.3986	1.3986	7.0000e-005	0.0000	1.4000

3.3 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.0664	28.0664	8.4700e-003	0.0000	28.2441
Total											0.0000	28.0664	28.0664	8.4700e-003	0.0000	28.2441

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	1.3986	1.3986	7.0000e-005	0.0000	1.4000
Total											0.0000	1.3986	1.3986	7.0000e-005	0.0000	1.4000

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	278.4766	278.4766	0.0691	0.0000	279.9270
Total											0.0000	278.4766	278.4766	0.0691	0.0000	279.9270

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
Vendor											0.0000	81.2592	81.2592	5.4000e-004	0.0000	81.2705
Worker											0.0000	96.5050	96.5050	4.4900e-003	0.0000	96.5994
Total											0.0000	177.7643	177.7643	5.0300e-003	0.0000	177.8699

3.4 Building Construction - 2016

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											0.0000	278.4763	278.4763	0.0691	0.0000	279.9267
Total											0.0000	278.4763	278.4763	0.0691	0.0000	279.9267

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
Vendor											0.0000	81.2592	81.2592	5.4000e-004	0.0000	81.2705
Worker											0.0000	96.5050	96.5050	4.4900e-003	0.0000	96.5994
Total											0.0000	177.7643	177.7643	5.0300e-003	0.0000	177.8699

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	241.6589	241.6589	0.0729	0.0000	243.1896
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total											0.0000	241.6589	241.6589	0.0729	0.0000	243.1896

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	16.0842	16.0842	7.5000e-004	0.0000	16.0999
Total											0.0000	16.0842	16.0842	7.5000e-004	0.0000	16.0999

3.5 Paving - 2016

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											0.0000	241.6586	241.6586	0.0729	0.0000	243.1894
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total											0.0000	241.6586	241.6586	0.0729	0.0000	243.1894

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	16.0842	16.0842	7.5000e-004	0.0000	16.0999
Total											0.0000	16.0842	16.0842	7.5000e-004	0.0000	16.0999

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	29.3624	29.3624	3.1000e-003	0.0000	29.4275
Total											0.0000	29.3624	29.3624	3.1000e-003	0.0000	29.4275

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	18.5351	18.5351	8.2000e-004	0.0000	18.5524
Total											0.0000	18.5351	18.5351	8.2000e-004	0.0000	18.5524

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	29.3624	29.3624	3.1000e-003	0.0000	29.4275
Total											0.0000	29.3624	29.3624	3.1000e-003	0.0000	29.4275

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	18.5351	18.5351	8.2000e-004	0.0000	18.5524
Total											0.0000	18.5351	18.5351	8.2000e-004	0.0000	18.5524

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated											0.0000	3,582.7110	3,582.7110	0.1153	0.0000	3,585.1313
Mitigated											0.0000	3,351.9544	3,351.9544	0.1089	0.0000	3,354.2402

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	628.68	628.68	628.68	842,149	784,041
Bank (with Drive-Through)	444.45	258.96	95.70	394,873	367,627
Fast Food Restaurant with Drive Thru	1,736.42	2,527.11	1899.52	1,970,780	1,834,796
Fast Food Restaurant with Drive Thru	1,736.42	2,527.11	1899.52	1,970,780	1,834,796
Parking Lot	0.00	0.00	0.00		
Strip Mall	2,275.03	2,158.00	1048.71	3,963,345	3,689,875
Total	6,821.00	8,099.85	5,572.13	9,141,927	8,511,134

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	16.60	8.40	6.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.457065	0.068684	0.178597	0.172280	0.046891	0.007460	0.012475	0.043976	0.000902	0.001056	0.006515	0.000828	0.003272

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

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					
NaturalGas Mitigated											0.0000	135.2087	135.2087	2.5900e-003	2.4800e-003	136.0315
NaturalGas Unmitigated											0.0000	135.2087	135.2087	2.5900e-003	2.4800e-003	136.0315
Electricity Mitigated											0.0000	338.3387	338.3387	0.0145	2.7600e-003	339.4979
Electricity Unmitigated											0.0000	338.3387	338.3387	0.0145	2.7600e-003	339.4979

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					
Bank (with Drive-Through)	101670											0.0000	5.4255	5.4255	1.0000e-004	1.0000e-004	5.4585
Fast Food Restaurant with Drive Thru Parking Lot	977725											0.0000	104.3503	104.3503	2.0000e-003	1.9100e-003	104.9853
Strip Mall	132950											0.0000	7.0947	7.0947	1.4000e-004	1.3000e-004	7.1379
Automobile Care Center	343645											0.0000	18.3382	18.3382	3.5000e-004	3.4000e-004	18.4498
Total												0.0000	135.2087	135.2087	2.5900e-003	2.4800e-003	136.0315

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru Parking Lot	977725											0.0000	104.3503	104.3503	2.0000e-003	1.9100e-003	104.9853
	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	132950											0.0000	7.0947	7.0947	1.4000e-004	1.3000e-004	7.1379
Automobile Care Center	343645											0.0000	18.3382	18.3382	3.5000e-004	3.4000e-004	18.4498
Bank (with Drive-Through)	101670											0.0000	5.4255	5.4255	1.0000e-004	1.0000e-004	5.4585
Total												0.0000	135.2087	135.2087	2.5900e-003	2.4800e-003	136.0315

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	116914	26.0193	1.1100e-003	2.1000e-004	26.1085
Bank (with Drive-Through)	34590	7.6980	3.3000e-004	6.0000e-005	7.7244
Fast Food Restaurant with Drive Thru	189420	84.3111	3.6100e-003	6.9000e-004	84.5999
Parking Lot	138336	30.7868	1.3200e-003	2.5000e-004	30.8922
Strip Mall	851598	189.5236	8.1100e-003	1.5500e-003	190.1729
Total		338.3387	0.0145	2.7600e-003	339.4979

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	116914	26.0193	1.1100e-003	2.1000e-004	26.1085
Bank (with Drive-Through)	34590	7.6980	3.3000e-004	6.0000e-005	7.7244
Fast Food Restaurant with Drive Thru	189420	84.3111	3.6100e-003	6.9000e-004	84.5999
Parking Lot	138336	30.7868	1.3200e-003	2.5000e-004	30.8922
Strip Mall	851598	189.5236	8.1100e-003	1.5500e-003	190.1729
Total		338.3387	0.0145	2.7600e-003	339.4979

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					
Unmitigated											0.0000	0.0115	0.0115	3.0000e-005	0.0000	0.0122
Mitigated											0.0000	0.0115	0.0115	3.0000e-005	0.0000	0.0122

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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0115	0.0115	3.0000e-005	0.0000	0.0122
Total											0.0000	0.0115	0.0115	3.0000e-005	0.0000	0.0122

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0115	0.0115	3.0000e-005	0.0000	0.0122
Total											0.0000	0.0115	0.0115	3.0000e-005	0.0000	0.0122

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	30.2277	0.2293	5.6100e-003	36.7831
Mitigated	30.2277	0.2293	5.6100e-003	36.7806

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.953982 / 0.584699	4.5128	0.0313	7.7000e-004	5.4076
Bank (with Drive-Through)	0.118869 / 0.072855	0.5623	3.9000e-003	1.0000e-004	0.6738
Fast Food Restaurant with Drive Thru	2.12474 / 0.135621	7.1665	0.0695	1.6900e-003	9.1495
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.80214 / 2.33035	17.9861	0.1246	3.0600e-003	21.5522
Total		30.2277	0.2293	5.6200e-003	36.7831

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.953982 / 0.584699	4.5128	0.0313	7.7000e-004	5.4073
Bank (with Drive-Through)	0.118869 / 0.072855	0.5623	3.9000e-003	1.0000e-004	0.6738
Fast Food Restaurant with Drive Thru	2.12474 / 0.135621	7.1665	0.0695	1.6900e-003	9.1488
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.80214 / 2.33035	17.9861	0.1246	3.0600e-003	21.5509
Total		30.2277	0.2293	5.6200e-003	36.7806

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	35.7386	2.1121	0.0000	80.0925
Unmitigated	35.7386	2.1121	0.0000	80.0925

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	38.73	7.8618	0.4646	0.0000	17.6189
Bank (with Drive-Through)	2.8	0.5684	0.0336	0.0000	1.2738
Fast Food Restaurant with Drive Thru	80.63	16.3672	0.9673	0.0000	36.6799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	53.9	10.9412	0.6466	0.0000	24.5200
Total		35.7386	2.1121	0.0000	80.0925

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	38.73	7.8618	0.4646	0.0000	17.6189
Bank (with Drive-Through)	2.8	0.5684	0.0336	0.0000	1.2738
Fast Food Restaurant with Drive-Thru	80.63	16.3672	0.9673	0.0000	36.6799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	53.9	10.9412	0.6466	0.0000	24.5200
Total		35.7386	2.1121	0.0000	80.0925

9.0 Operational Offroad

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

**Eastvale Marketplace - Business As Usual
Riverside-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.00	1000sqft	0.07	3,000.00	0
Parking Lot	393.00	Space	3.54	157,200.00	0
Fast Food Restaurant with Drive Thru	3.50	1000sqft	0.08	3,500.00	0
Fast Food Restaurant with Drive Thru	3.50	1000sqft	0.08	3,500.00	0
Automobile Care Center	10.14	1000sqft	0.23	10,140.00	0
Strip Mall	51.33	1000sqft	1.18	51,332.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2005
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	654.17	CH4 Intensity (lb/MW hr)	0.028	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE's 2005 Intensity Factors

Land Use - Unit amounts per site plan

Construction Phase - Building construction, site paving, and building painting assumed to occur simultaneously

Grading - Project site = 7.64 acres

Energy Use - Using historical energy use data

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	PhaseEndDate	12/15/2006	1/27/2006
tblConstructionPhase	PhaseEndDate	12/15/2006	1/27/2006
tblConstructionPhase	PhaseStartDate	1/28/2006	3/12/2005
tblConstructionPhase	PhaseStartDate	1/28/2006	3/12/2005
tblGrading	AcresOfGrading	10.00	7.64
tblLandUse	LandUseSquareFeet	51,330.00	51,332.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.028
tblProjectCharacteristics	CO2IntensityFactor	630.89	654.17
tblProjectCharacteristics	OperationalYear	2014	2005

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0115	0.0115	5.0000e-005	0.0000	0.0127
Energy											0.0000	586.3155	586.3155	0.0219	6.6200e-003	588.8264
Mobile											0.0000	5,005.1763	5,005.1763	0.4889	0.0000	5,015.4420
Waste											35.7386	0.0000	35.7386	2.1121	0.0000	80.0925
Water											2.2207	37.3418	39.5625	0.2297	5.7300e-003	46.1616
Total											37.9593	5,628.8451	5,666.8043	2.8526	0.0124	5,730.5352

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0115	0.0115	5.0000e-005	0.0000	0.0127
Energy											0.0000	586.3155	586.3155	0.0219	6.6200e-003	588.8264
Mobile											0.0000	4,681.9149	4,681.9149	0.4639	0.0000	4,691.6560
Waste											35.7386	0.0000	35.7386	2.1121	0.0000	80.0925
Water											2.2207	37.3418	39.5625	0.2296	5.7200e-003	46.1581
Total											37.9593	5,305.5837	5,343.5430	2.8275	0.0123	5,406.7457

	ROG	NOx	CO	SO2	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	5.74	5.70	0.88	0.08	5.65

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/29/2005	2/11/2005	5	10	
2	Grading	Grading	2/12/2005	3/11/2005	5	20	
3	Building Construction	Building Construction	3/12/2005	1/27/2006	5	230	
4	Paving	Paving	3/12/2005	1/27/2006	5	230	
5	Architectural Coating	Architectural Coating	3/12/2005	1/27/2006	5	230	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7.64

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,282; Non-Residential Outdoor: 38,094 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	37.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2005

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	20.4388	20.4388	3.6100e-003	0.0000	20.5145
Total											0.0000	20.4388	20.4388	3.6100e-003	0.0000	20.5145

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	1.1570	1.1570	1.2000e-004	0.0000	1.1595
Total											0.0000	1.1570	1.1570	1.2000e-004	0.0000	1.1595

3.2 Site Preparation - 2005

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	20.4387	20.4387	3.6100e-003	0.0000	20.5145
Total											0.0000	20.4387	20.4387	3.6100e-003	0.0000	20.5145

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	1.1570	1.1570	1.2000e-004	0.0000	1.1595
Total											0.0000	1.1570	1.1570	1.2000e-004	0.0000	1.1595

3.3 Grading - 2005

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	31.1492	31.1492	5.7000e-003	0.0000	31.2688
Total											0.0000	31.1492	31.1492	5.7000e-003	0.0000	31.2688

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	1.9283	1.9283	2.0000e-004	0.0000	1.9324
Total											0.0000	1.9283	1.9283	2.0000e-004	0.0000	1.9324

3.3 Grading - 2005

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	31.1491	31.1491	5.7000e-003	0.0000	31.2688
Total											0.0000	31.1491	31.1491	5.7000e-003	0.0000	31.2688

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	1.9283	1.9283	2.0000e-004	0.0000	1.9324
Total											0.0000	1.9283	1.9283	2.0000e-004	0.0000	1.9324

3.4 Building Construction - 2005

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											0.0000	274.7927	274.7927	0.0642	0.0000	276.1419
Total											0.0000	274.7927	274.7927	0.0642	0.0000	276.1419

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
Vendor											0.0000	90.8353	90.8353	3.9200e-003	0.0000	90.9175
Worker											0.0000	121.4813	121.4813	0.0125	0.0000	121.7432
Total											0.0000	212.3166	212.3166	0.0164	0.0000	212.6606

3.4 Building Construction - 2005

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											0.0000	274.7924	274.7924	0.0642	0.0000	276.1415
Total											0.0000	274.7924	274.7924	0.0642	0.0000	276.1415

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
Vendor											0.0000	90.8353	90.8353	3.9200e-003	0.0000	90.9175
Worker											0.0000	121.4813	121.4813	0.0125	0.0000	121.7432
Total											0.0000	212.3166	212.3166	0.0164	0.0000	212.6606

3.4 Building Construction - 2006

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											0.0000	26.1707	26.1707	6.1200e-003	0.0000	26.2992
Total											0.0000	26.1707	26.1707	6.1200e-003	0.0000	26.2992

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
Vendor											0.0000	8.6510	8.6510	3.7000e-004	0.0000	8.6588
Worker											0.0000	11.5697	11.5697	1.1900e-003	0.0000	11.5946
Total											0.0000	20.2206	20.2206	1.5600e-003	0.0000	20.2534

3.4 Building Construction - 2006

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											0.0000	26.1707	26.1707	6.1200e-003	0.0000	26.2992
Total											0.0000	26.1707	26.1707	6.1200e-003	0.0000	26.2992

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
Vendor											0.0000	8.6510	8.6510	3.7000e-004	0.0000	8.6588
Worker											0.0000	11.5697	11.5697	1.1900e-003	0.0000	11.5946
Total											0.0000	20.2206	20.2206	1.5600e-003	0.0000	20.2534

3.5 Paving - 2005

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											0.0000	247.6602	247.6602	0.0486	0.0000	248.6810
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total											0.0000	247.6602	247.6602	0.0486	0.0000	248.6810

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	20.2469	20.2469	2.0800e-003	0.0000	20.2905
Total											0.0000	20.2469	20.2469	2.0800e-003	0.0000	20.2905

3.5 Paving - 2005

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											0.0000	247.6599	247.6599	0.0486	0.0000	248.6807
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total											0.0000	247.6599	247.6599	0.0486	0.0000	248.6807

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	20.2469	20.2469	2.0800e-003	0.0000	20.2905
Total											0.0000	20.2469	20.2469	2.0800e-003	0.0000	20.2905

3.5 Paving - 2006

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											0.0000	23.5867	23.5867	4.6300e-003	0.0000	23.6839
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total											0.0000	23.5867	23.5867	4.6300e-003	0.0000	23.6839

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	1.9283	1.9283	2.0000e-004	0.0000	1.9324
Total											0.0000	1.9283	1.9283	2.0000e-004	0.0000	1.9324

3.5 Paving - 2006

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											0.0000	23.5867	23.5867	4.6300e-003	0.0000	23.6839
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total											0.0000	23.5867	23.5867	4.6300e-003	0.0000	23.6839

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	1.9283	1.9283	2.0000e-004	0.0000	1.9324
Total											0.0000	1.9283	1.9283	2.0000e-004	0.0000	1.9324

3.6 Architectural Coating - 2005

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	26.8092	26.8092	6.4600e-003	0.0000	26.9449
Total											0.0000	26.8092	26.8092	6.4600e-003	0.0000	26.9449

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	24.2963	24.2963	2.4900e-003	0.0000	24.3486
Total											0.0000	24.2963	24.2963	2.4900e-003	0.0000	24.3486

3.6 Architectural Coating - 2005

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	26.8091	26.8091	6.4600e-003	0.0000	26.9449
Total											0.0000	26.8091	26.8091	6.4600e-003	0.0000	26.9449

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	24.2963	24.2963	2.4900e-003	0.0000	24.3486
Total											0.0000	24.2963	24.2963	2.4900e-003	0.0000	24.3486

3.6 Architectural Coating - 2006

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	2.5533	2.5533	6.2000e-004	0.0000	2.5662
Total											0.0000	2.5533	2.5533	6.2000e-004	0.0000	2.5662

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	2.3139	2.3139	2.4000e-004	0.0000	2.3189
Total											0.0000	2.3139	2.3139	2.4000e-004	0.0000	2.3189

3.6 Architectural Coating - 2006

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	2.5533	2.5533	6.2000e-004	0.0000	2.5662
Total											0.0000	2.5533	2.5533	6.2000e-004	0.0000	2.5662

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	2.3139	2.3139	2.4000e-004	0.0000	2.3189
Total											0.0000	2.3139	2.3139	2.4000e-004	0.0000	2.3189

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	4,681.9149	4,681.9149	0.4639	0.0000	4,691.6560
Unmitigated											0.0000	5,005.1763	5,005.1763	0.4889	0.0000	5,015.4420

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	628.68	628.68	628.68	842,149	784,041
Bank (with Drive-Through)	444.45	258.96	95.70	394,873	367,627
Fast Food Restaurant with Drive Thru	1,736.42	2,527.11	1899.52	1,970,780	1,834,796
Fast Food Restaurant with Drive Thru	1,736.42	2,527.11	1899.52	1,970,780	1,834,796
Parking Lot	0.00	0.00	0.00		
Strip Mall	2,274.95	2,157.91	1048.67	3,963,191	3,689,731
Total	6,820.92	8,099.76	5,572.09	9,141,773	8,510,991

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	16.60	8.40	6.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.437815	0.104647	0.233388	0.126882	0.026947	0.007657	0.012555	0.032638	0.000710	0.000618	0.011525	0.000974	0.003644

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

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	451.1068	451.1068	0.0193	4.1400e-003	452.7949
Electricity Unmitigated											0.0000	451.1068	451.1068	0.0193	4.1400e-003	452.7949
NaturalGas Mitigated											0.0000	135.2087	135.2087	2.5900e-003	2.4800e-003	136.0315
NaturalGas Unmitigated											0.0000	135.2087	135.2087	2.5900e-003	2.4800e-003	136.0315

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					
Bank (with Drive-Through)	101670											0.0000	5.4255	5.4255	1.0000e-004	1.0000e-004	5.4585
Fast Food Restaurant with Drive Thru Parking Lot	977725											0.0000	104.3503	104.3503	2.0000e-003	1.9100e-003	104.9853
Strip Mall	132950											0.0000	7.0947	7.0947	1.4000e-004	1.3000e-004	7.1379
Automobile Care Center	343645											0.0000	18.3382	18.3382	3.5000e-004	3.4000e-004	18.4498
Total												0.0000	135.2087	135.2087	2.5900e-003	2.4800e-003	136.0315

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Bank (with Drive-Through)	101670											0.0000	5.4255	5.4255	1.0000e-004	1.0000e-004	5.4585
Fast Food Restaurant with Drive Thru Parking Lot	977725											0.0000	104.3503	104.3503	2.0000e-003	1.9100e-003	104.9853
Strip Mall	132950											0.0000	7.0947	7.0947	1.4000e-004	1.3000e-004	7.1379
Automobile Care Center	343645											0.0000	18.3382	18.3382	3.5000e-004	3.4000e-004	18.4498
Total												0.0000	135.2087	135.2087	2.5900e-003	2.4800e-003	136.0315

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	116914	34.6915	1.4800e-003	3.2000e-004	34.8214
Bank (with Drive-Through)	34590	10.2638	4.4000e-004	9.0000e-005	10.3022
Fast Food Restaurant with Drive Thru	189420	112.4119	4.8100e-003	1.0300e-003	112.8325
Parking Lot	138336	41.0480	1.7600e-003	3.8000e-004	41.2016
Strip Mall	851598	252.6917	0.0108	2.3200e-003	253.6373
Total		451.1068	0.0193	4.1400e-003	452.7949

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	116914	34.6915	1.4800e-003	3.2000e-004	34.8214
Bank (with Drive-Through)	34590	10.2638	4.4000e-004	9.0000e-005	10.3022
Fast Food Restaurant with Drive Thru	189420	112.4119	4.8100e-003	1.0300e-003	112.8325
Parking Lot	138336	41.0480	1.7600e-003	3.8000e-004	41.2016
Strip Mall	851598	252.6917	0.0108	2.3200e-003	253.6373
Total		451.1068	0.0193	4.1400e-003	452.7949

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											0.0000	0.0115	0.0115	5.0000e-005	0.0000	0.0127
Unmitigated											0.0000	0.0115	0.0115	5.0000e-005	0.0000	0.0127

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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0115	0.0115	5.0000e-005	0.0000	0.0127
Total											0.0000	0.0115	0.0115	5.0000e-005	0.0000	0.0127

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0115	0.0115	5.0000e-005	0.0000	0.0127
Total											0.0000	0.0115	0.0115	5.0000e-005	0.0000	0.0127

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	39.5625	0.2296	5.7200e-003	46.1581
Unmitigated	39.5625	0.2297	5.7300e-003	46.1616

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.953982 / 0.584699	5.9161	0.0313	7.9000e-004	6.8174
Bank (with Drive-Through)	0.118869 / 0.072855	0.7372	3.9000e-003	1.0000e-004	0.8495
Fast Food Restaurant with Drive-Thru	2.12474 / 0.135621	9.3305	0.0696	1.7100e-003	11.3236
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.80214 / 2.33035	23.5788	0.1249	3.1300e-003	27.1711
Total		39.5625	0.2297	5.7300e-003	46.1616

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.953982 / 0.584699	5.9161	0.0313	7.8000e-004	6.8169
Bank (with Drive-Through)	0.118869 / 0.072855	0.7372	3.9000e-003	1.0000e-004	0.8494
Fast Food Restaurant with Drive-Thru	2.12474 / 0.135621	9.3305	0.0696	1.7100e-003	11.3225
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.80214 / 2.33035	23.5788	0.1248	3.1300e-003	27.1692
Total		39.5625	0.2296	5.7200e-003	46.1581

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	35.7386	2.1121	0.0000	80.0925
Unmitigated	35.7386	2.1121	0.0000	80.0925

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	38.73	7.8618	0.4646	0.0000	17.6189
Bank (with Drive-Through)	2.8	0.5684	0.0336	0.0000	1.2738
Fast Food Restaurant with Drive Thru	80.63	16.3672	0.9673	0.0000	36.6799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	53.9	10.9412	0.6466	0.0000	24.5200
Total		35.7386	2.1121	0.0000	80.0925

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	38.73	7.8618	0.4646	0.0000	17.6189
Bank (with Drive-Through)	2.8	0.5684	0.0336	0.0000	1.2738
Fast Food Restaurant with Drive-Thru	80.63	16.3672	0.9673	0.0000	36.6799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	53.9	10.9412	0.6466	0.0000	24.5200
Total		35.7386	2.1121	0.0000	80.0925

9.0 Operational Offroad

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