



KUNZMAN ASSOCIATES, INC.

OVER 35 YEARS OF EXCELLENT SERVICE

March 26, 2015

Mr. Dan Biswas, VP of Development
CJS Development II, LLC
5111 North Scottsdale Road, Suite 200
Scottsdale, AZ 85250

Re: Dollar General - Alta Sierra Project Air Quality/Greenhouse Gas Analysis

The firm of Kunzman Associates, Inc. is pleased to provide this Air Quality/Greenhouse Gas Analysis for the Dollar General - Alta Sierra Project.

The analysis used the trip generation rate of 64.03 trips per thousand square feet (TSF) as detailed in the project-specific traffic study. The tables are shown on the following pages. Table 1 details the daily construction-related emissions, Table 2 details the daily operational emissions, and Table 3 details the annual project-related greenhouse gas emissions. Footnotes are included in the tables to explain the output values.

The CalEEMod output is attached as an appendix to this letter and shows the emissions for summer, winter, and annual. Notes are included in the CalEEMod output detailing assumptions. Construction was anticipated to start no earlier than June 2015. The construction timing for each phase is also shown in the output. Operational year was modeled as 2015. During construction, the emissions for NO_x will exceed the Northern Sierra Air Quality Management District (NSAQMD) Level A thresholds, but are within acceptable levels for Level B thresholds. However, none of the other emissions (ROG, or PM-10) exceed the NSAQMD Level A thresholds during either construction or operation. The project's emissions would only be considered to be significant if they exceeded Level 3 thresholds (136 lbs per day). It is assumed that low VOC paint (no greater than 50g/L VOC) will be used during construction of the project, as that was already an existing mitigation measure in the County's IS-MND.

It has been a pleasure to service your needs on this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 973-8383.

Respectfully submitted,

KUNZMAN ASSOCIATES, INC.

Katie Wilson, M.S.
Senior Associate
#5780c

KUNZMAN ASSOCIATES, INC.

William Kunzman, P.E.
Principal

Table 1
Construction-Related Peak Daily Emissions¹

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO ₂	PM10	PM2.5
Site Preparation						
On-Site ²	1.47	16.02	12.03	0.01	3.01	1.93
Off-Site ³	0.04	0.06	0.58	0.00	0.06	0.02
Total	1.52	16.08	12.61	0.01	3.07	1.95
Grading						
On-Site ²	2.07	21.94	14.09	0.01	3.11	2.09
Off-Site ³	6.66	17.30	81.58	0.04	1.07	0.46
Total	8.72	39.24	95.67	0.05	4.18	2.54
Building Construction						
On-Site ²	3.60	21.56	15.00	0.02	1.49	1.43
Off-Site ³	0.33	0.97	4.02	0.00	0.28	0.08
Total	3.93	22.53	19.02	0.02	1.76	1.52
Paving						
On-Site ²	1.62	14.60	9.17	0.01	0.89	0.82
Off-Site ³	0.10	0.17	1.51	0.00	0.17	0.05
Total	1.72	14.76	10.68	0.02	1.06	0.87
Architectural Coating						
On-Site ^{2,5}	5.63	2.57	1.90	0.00	0.22	0.22
Off-Site ³	0.02	0.04	0.35	0.00	0.04	0.01
Total	5.65	2.61	2.25	0.00	0.26	0.23
Total for overlapping phases⁴	11.30	39.90	31.95	0.04	3.08	2.62
NSAQMD Level A Thresholds (lbs/day)	< 24	< 24	--	--	< 79	--
Exceeds Threshold A?	No	Yes	--	--	No	--
NSAQMD Level B Thresholds (lbs/day)	24-136	24-136	--	--	79-136	--
Exceeds Threshold A?	No	No	--	--	No	--

¹ Source: CalEEMod Version 2013.2.2. Highest values from either summer or winter emissions reported above

² On-site emissions from equipment operated on-site that is not operated on public roads.

³ Off-site emissions from equipment operated on public roads.

⁴ Construction, paving and painting phases may overlap.

⁵ Paints will be limited to a VOC content no greater than 50g/L VOC

Note: Mitigated values reported for site prep and grading as the project is required to comply with Fugitive Dust Rule 226.

Table 2

Operational Peak Daily Emissions¹

Activity	Pollutant Emissions (pounds/day)					
	ROGs	NOx	CO	SO2	PM10	PM2.5
Area Sources ²	1.13	0.00	0.00	0.00	0.00	0.00
Energy Usage ³	0.00	0.03	0.02	0.00	0.00	0.00
Mobile Sources ⁴	4.38	8.03	41.44	0.03	2.04	0.61
Total Emissions	5.51	8.06	41.46	0.03	2.05	0.61
NSAQMD Level A Thresholds (lbs/day)	< 24	< 24	--	--	< 79	--
Exceeds Threshold A?	No	No	--	--	No	--

¹ Source: CalEEMod Version 2013.2.2. Highest values from either summer or winter emissions reported above.

² Area sources consist of emissions from consumer products, architectural coatings, hearths and landscaping equipment.

³ Energy usage consists of emissions from generation of electricity and on-site non-hearth natural gas usage.

⁴ Mobile sources consist of emissions from vehicles and road dust.

Table 3

Project-Related Annual Operational Greenhouse Gas Emissions¹

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO ₂	NonBio-CO ₂	CO ₂	CH ₄	N ₂ O	CO ₂ e
Area Sources ²	0.00	0.00	0.00	0.00	0.00	0.00
Energy Usage ³	0.00	29.67	29.67	0.00	0.00	29.80
Mobile Sources ⁴	0.00	480.54	480.54	0.02	0.00	481.12
Solid Waste ⁵	7.95	0.00	7.95	0.47	0.00	17.81
Water ⁶	0.21	1.48	1.70	0.02	0.00	2.32
Total Emissions	8.16	511.69	519.85	0.52	0.00	531.04

¹ Source: CalEEMod Version 2013.2.2. Year 2015 emissions (opening year).

² Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

³ Energy usage consist of GHG emissions from electricity and natural gas usage. Mitigated values reported as project will comply with 2013 title 24 requirements which are 30% more efficient than 2008 standards.

⁴ Mobile sources consist of GHG emissions from vehicles.

⁵ Solid waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.

⁶ Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

Note: Construction of the project would create a total of 132.83 MTCO₂e.

Dollar General Alta Sierra JN 5780c
Northern Sierra AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Free-Standing Discount Store	9.10	1000sqft	0.21	9,100.00	0
Parking Lot	34.00	Space	0.31	13,600.00	0
Other Non-Asphalt Surfaces	0.30	Acre	0.30	13,068.00	0
Other Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	72
Climate Zone	3			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project site is one acre with a 9,100 SF free-standing Dollar store, 34-space parking lot with approximately 30% of the site landscaped, the balance of the site is asphalt.

Construction Phase - Site prep includes work for the off-site septic. Painting duration includes application of parking lot striping.

Off-road Equipment - No grader for site prep, used in grading only

Grading - Site is 1 acre. 8381 CY cut minus 653 CY of fill = 7728 CY to be exported off-site.

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Distance to haul site (11727 La Barr Meadows Rd) is 4.2 miles one-way

Vehicle Trips - Trip generation rate in TIA is 64.03 trips per TSF

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - 2013 commercial Title 24 standards are 30% more efficient than 2008 Title 24 standards

Water Mitigation - Green building standards require 20% reduction in indoor water use

Waste Mitigation - AB 939 requires 50% reduction in waste to landfill

Architectural Coating - Limit paints to 50g/L VOC.

Area Coating -

Area Mitigation - Limit paints to 50g/L VOC

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	1.00	7.00
tblGrading	AcresOfGrading	1.88	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	MaterialExported	0.00	7,728.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblVehicleTrips	ST_TR	71.07	64.03
tblVehicleTrips	SU_TR	56.36	64.03
tblVehicleTrips	WD_TR	57.24	64.03

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	lb/day										lb/day					
Area	1.1268	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Energy	3.0000e-003	0.0273	0.0229	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.7043	32.7043	6.3000e-004	6.0000e-004	32.9033
Mobile	3.7017	7.1111	29.3839	0.0333	1.9449	0.0957	2.0405	0.5209	0.0876	0.6085		3,035.4313	3,035.4313	0.1683		3,038.9654
Total	4.8315	7.1384	29.4114	0.0335	1.9449	0.0978	2.0426	0.5209	0.0897	0.6106		3,068.1451	3,068.1451	0.1690	6.0000e-004	3,071.8788

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	0.9723	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Energy	2.2700e-003	0.0206	0.0173	1.2000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003		24.7233	24.7233	4.7000e-004	4.5000e-004	24.8737
Mobile	3.7017	7.1111	29.3839	0.0333	1.9449	0.0957	2.0405	0.5209	0.0876	0.6085		3,035.4313	3,035.4313	0.1683		3,038.9654
Total	4.6763	7.1318	29.4058	0.0334	1.9449	0.0973	2.0421	0.5209	0.0892	0.6101		3,060.1641	3,060.1641	0.1688	4.5000e-004	3,063.8492

	ROG	NOx	CO	SO2	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	3.21	0.09	0.02	0.12	0.00	0.51	0.02	0.00	0.56	0.08	0.00	0.26	0.26	0.09	25.00	0.26

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	6/1/2015	6/9/2015	5	7	
2	Grading	Grading	6/10/2015	6/16/2015	5	5	
3	Building Construction	Building Construction	6/17/2015	11/3/2015	5	100	
4	Paving	Paving	11/4/2015	11/10/2015	5	5	
5	Architectural Coating	Architectural Coating	11/11/2015	12/17/2015	5	27	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,625; Non-Residential Outdoor: 15,208 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	0	8.00	174	0.41
Paving	Pavers	1	6.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Building Construction	Welders	3	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
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	966.00	16.80	6.60	4.20	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 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					
Fugitive Dust					5.4208	0.0000	5.4208	2.9128	0.0000	2.9128			0.0000			0.0000
Off-Road	1.4744	16.0208	12.0300	0.0109		0.8560	0.8560		0.7875	0.7875		1,144.6775	1,144.6775	0.3417		1,151.8539
Total	1.4744	16.0208	12.0300	0.0109	5.4208	0.8560	6.2768	2.9128	0.7875	3.7003		1,144.6775	1,144.6775	0.3417		1,151.8539

3.2 Site Preparation - 2015

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	0.0389	0.0482	0.5477	7.8000e-004	0.0639	6.4000e-004	0.0645	0.0169	5.8000e-004	0.0175		66.4650	66.4650	4.3800e-003			66.5569
Total	0.0389	0.0482	0.5477	7.8000e-004	0.0639	6.4000e-004	0.0645	0.0169	5.8000e-004	0.0175		66.4650	66.4650	4.3800e-003			66.5569

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1141	0.0000	2.1141	1.1360	0.0000	1.1360			0.0000			0.0000
Off-Road	1.4744	16.0208	12.0300	0.0109		0.8560	0.8560		0.7875	0.7875	0.0000	1,144.6775	1,144.6775	0.3417		1,151.8539
Total	1.4744	16.0208	12.0300	0.0109	2.1141	0.8560	2.9701	1.1360	0.7875	1.9235	0.0000	1,144.6775	1,144.6775	0.3417		1,151.8539

3.2 Site Preparation - 2015

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	0.0389	0.0482	0.5477	7.8000e-004	0.0639	6.4000e-004	0.0645	0.0169	5.8000e-004	0.0175		66.4650	66.4650	4.3800e-003		66.5569
Total	0.0389	0.0482	0.5477	7.8000e-004	0.0639	6.4000e-004	0.0645	0.0169	5.8000e-004	0.0175		66.4650	66.4650	4.3800e-003		66.5569

3.3 Grading - 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					
Fugitive Dust					4.9035	0.0000	4.9035	2.5320	0.0000	2.5320			0.0000			0.0000
Off-Road	2.0666	21.9443	14.0902	0.0141		1.1968	1.1968		1.1011	1.1011		1,479.8000	1,479.8000	0.4418		1,489.0774
Total	2.0666	21.9443	14.0902	0.0141	4.9035	1.1968	6.1003	2.5320	1.1011	3.6331		1,479.8000	1,479.8000	0.4418		1,489.0774

3.3 Grading - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8415	16.1961	45.4881	0.0339	0.7098	0.2495	0.9593	0.1946	0.2286	0.4232		3,388.6196	3,388.6196	0.0347		3,389.3479
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	0.0623	0.0772	0.8763	1.2500e-003	0.1022	1.0200e-003	0.1032	0.0271	9.3000e-004	0.0280		106.3439	106.3439	7.0100e-003		106.4911
Total	3.9038	16.2733	46.3644	0.0352	0.8120	0.2505	1.0625	0.2217	0.2295	0.4512		3,494.9635	3,494.9635	0.0417		3,495.8390

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					1.9124	0.0000	1.9124	0.9875	0.0000	0.9875			0.0000			0.0000
Off-Road	2.0666	21.9443	14.0902	0.0141		1.1968	1.1968		1.1011	1.1011	0.0000	1,479.8000	1,479.8000	0.4418		1,489.0774
Total	2.0666	21.9443	14.0902	0.0141	1.9124	1.1968	3.1091	0.9875	1.1011	2.0886	0.0000	1,479.8000	1,479.8000	0.4418		1,489.0774

3.3 Grading - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8415	16.1961	45.4881	0.0339	0.7098	0.2495	0.9593	0.1946	0.2286	0.4232		3,388.6196	3,388.6196	0.0347		3,389.3479
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	0.0623	0.0772	0.8763	1.2500e-003	0.1022	1.0200e-003	0.1032	0.0271	9.3000e-004	0.0280		106.3439	106.3439	7.0100e-003		106.4911
Total	3.9038	16.2733	46.3644	0.0352	0.8120	0.2505	1.0625	0.2217	0.2295	0.4512		3,494.9635	3,494.9635	0.0417		3,495.8390

3.4 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	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344		2,055.6247	2,055.6247	0.4741		2,065.5812
Total	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344		2,055.6247	2,055.6247	0.4741		2,065.5812

3.4 Building Construction - 2015

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	0.1187	0.7122	1.1388	1.5300e-003	0.0421	0.0138	0.0558	0.0120	0.0126	0.0246		154.5017	154.5017	1.5000e-003			154.5332
Worker	0.1324	0.1640	1.8621	2.6600e-003	0.2171	2.1800e-003	0.2193	0.0576	1.9700e-003	0.0596		225.9809	225.9809	0.0149			226.2936
Total	0.2511	0.8762	3.0009	4.1900e-003	0.2592	0.0159	0.2751	0.0696	0.0146	0.0842		380.4825	380.4825	0.0164			380.8268

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	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344	0.0000	2,055.6247	2,055.6247	0.4741			2,065.5812
Total	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344	0.0000	2,055.6247	2,055.6247	0.4741			2,065.5812

3.4 Building Construction - 2015

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	0.1187	0.7122	1.1388	1.5300e-003	0.0421	0.0138	0.0558	0.0120	0.0126	0.0246		154.5017	154.5017	1.5000e-003			154.5332
Worker	0.1324	0.1640	1.8621	2.6600e-003	0.2171	2.1800e-003	0.2193	0.0576	1.9700e-003	0.0596		225.9809	225.9809	0.0149			226.2936
Total	0.2511	0.8762	3.0009	4.1900e-003	0.2592	0.0159	0.2751	0.0696	0.0146	0.0842		380.4825	380.4825	0.0164			380.8268

3.5 Paving - 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	1.4041	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215		1,382.4703	1,382.4703	0.4054			1,390.9826
Paving	0.2568					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6609	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215		1,382.4703	1,382.4703	0.4054			1,390.9826

3.5 Paving - 2015

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	0.1012	0.1254	1.4240	2.0300e-003	0.1661	1.6600e-003	0.1677	0.0440	1.5000e-003	0.0455		172.8089	172.8089	0.0114			173.0480
Total	0.1012	0.1254	1.4240	2.0300e-003	0.1661	1.6600e-003	0.1677	0.0440	1.5000e-003	0.0455		172.8089	172.8089	0.0114			173.0480

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4041	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215	0.0000	1,382.4703	1,382.4703	0.4054			1,390.9826
Paving	0.2568					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6609	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215	0.0000	1,382.4703	1,382.4703	0.4054			1,390.9826

3.5 Paving - 2015

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	0.1012	0.1254	1.4240	2.0300e-003	0.1661	1.6600e-003	0.1677	0.0440	1.5000e-003	0.0455		172.8089	172.8089	0.0114		173.0480
Total	0.1012	0.1254	1.4240	2.0300e-003	0.1661	1.6600e-003	0.1677	0.0440	1.5000e-003	0.0455		172.8089	172.8089	0.0114		173.0480

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	5.2215					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	5.6281	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

3.6 Architectural Coating - 2015

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	0.0234	0.0289	0.3286	4.7000e-004	0.0383	3.8000e-004	0.0387	0.0102	3.5000e-004	0.0105		39.8790	39.8790	2.6300e-003			39.9342
Total	0.0234	0.0289	0.3286	4.7000e-004	0.0383	3.8000e-004	0.0387	0.0102	3.5000e-004	0.0105		39.8790	39.8790	2.6300e-003			39.9342

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	5.2215					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	0.0000	281.4481	281.4481	0.0367			282.2177
Total	5.6281	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367			282.2177

3.6 Architectural Coating - 2015

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	0.0234	0.0289	0.3286	4.7000e-004	0.0383	3.8000e-004	0.0387	0.0102	3.5000e-004	0.0105		39.8790	39.8790	2.6300e-003		39.9342
Total	0.0234	0.0289	0.3286	4.7000e-004	0.0383	3.8000e-004	0.0387	0.0102	3.5000e-004	0.0105		39.8790	39.8790	2.6300e-003		39.9342

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	3.7017	7.1111	29.3839	0.0333	1.9449	0.0957	2.0405	0.5209	0.0876	0.6085		3,035.4313	3,035.4313	0.1683		3,038.9654
Unmitigated	3.7017	7.1111	29.3839	0.0333	1.9449	0.0957	2.0405	0.5209	0.0876	0.6085		3,035.4313	3,035.4313	0.1683		3,038.9654

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Free-Standing Discount Store	582.67	582.67	582.67	910,907	910,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	582.67	582.67	582.67	910,907	910,907

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
Free-Standing Discount Store	14.70	6.60	6.60	12.20	68.80	19.00	47.5	35.5	17
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.327285	0.070031	0.247645	0.163317	0.088208	0.010139	0.018123	0.057747	0.001598	0.000817	0.009135	0.000630	0.005325

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.2700e-003	0.0206	0.0173	1.2000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003		24.7233	24.7233	4.7000e-004	4.5000e-004	24.8737
NaturalGas Unmitigated	3.0000e-003	0.0273	0.0229	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.7043	32.7043	6.3000e-004	6.0000e-004	32.9033

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					
Free-Standing Discount Store	277.986	3.0000e-003	0.0273	0.0229	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.7043	32.7043	6.3000e-004	6.0000e-004	32.9033
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.0000e-003	0.0273	0.0229	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.7043	32.7043	6.3000e-004	6.0000e-004	32.9033

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount Store	0.210148	2.2700e-003	0.0206	0.0173	1.2000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003		24.7233	24.7233	4.7000e-004	4.5000e-004	24.8737
Total		2.2700e-003	0.0206	0.0173	1.2000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003		24.7233	24.7233	4.7000e-004	4.5000e-004	24.8737

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9723	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Unmitigated	1.1268	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1931					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Total	1.1268	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0386					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Total	0.9723	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Dollar General Alta Sierra JN 5780c
Northern Sierra AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Free-Standing Discount Store	9.10	1000sqft	0.21	9,100.00	0
Parking Lot	34.00	Space	0.31	13,600.00	0
Other Non-Asphalt Surfaces	0.30	Acre	0.30	13,068.00	0
Other Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	72
Climate Zone	3			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project site is one acre with a 9,100 SF free-standing Dollar store, 34-space parking lot with approximately 30% of the site landscaped, the balance of the site is asphalt.

Construction Phase - Site prep includes work for the off-site septic. Painting duration includes application of parking lot striping.

Off-road Equipment - No grader for site prep, used in grading only

Grading - Site is 1 acre. 8381 CY cut minus 653 CY of fill = 7728 CY to be exported off-site.

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Distance to haul site (11727 La Barr Meadows Rd) is 4.2 miles one-way

Vehicle Trips - Trip generation rate in TIA is 64.03 trips per TSF

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - 2013 commercial Title 24 standards are 30% more efficient than 2008 Title 24 standards

Water Mitigation - Green building standards require 20% reduction in indoor water use

Waste Mitigation - AB 939 requires 50% reduction in waste to landfill

Architectural Coating - Limit paints to 50g/L VOC.

Area Coating -

Area Mitigation - Limit paints to 50g/L VOC

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	1.00	7.00
tblGrading	AcresOfGrading	1.88	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	MaterialExported	0.00	7,728.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblVehicleTrips	ST_TR	71.07	64.03
tblVehicleTrips	SU_TR	56.36	64.03
tblVehicleTrips	WD_TR	57.24	64.03

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	lb/day										lb/day					
Area	1.1268	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Energy	3.0000e-003	0.0273	0.0229	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.7043	32.7043	6.3000e-004	6.0000e-004	32.9033
Mobile	4.3826	8.0336	41.4362	0.0318	1.9449	0.0970	2.0418	0.5209	0.0888	0.6097		2,883.3779	2,883.3779	0.1686		2,886.9184
Total	5.5125	8.0609	41.4637	0.0319	1.9449	0.0990	2.0439	0.5209	0.0909	0.6118		2,916.0917	2,916.0917	0.1693	6.0000e-004	2,919.8318

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	0.9723	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Energy	2.2700e-003	0.0206	0.0173	1.2000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003		24.7233	24.7233	4.7000e-004	4.5000e-004	24.8737
Mobile	4.3826	8.0336	41.4362	0.0318	1.9449	0.0970	2.0418	0.5209	0.0888	0.6097		2,883.3779	2,883.3779	0.1686		2,886.9184
Total	5.3572	8.0543	41.4581	0.0319	1.9449	0.0985	2.0434	0.5209	0.0904	0.6113		2,908.1107	2,908.1107	0.1691	4.5000e-004	2,911.8022

	ROG	NOx	CO	SO2	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	2.82	0.08	0.01	0.13	0.00	0.50	0.02	0.00	0.55	0.08	0.00	0.27	0.27	0.09	25.00	0.28

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	6/1/2015	6/9/2015	5	7	
2	Grading	Grading	6/10/2015	6/16/2015	5	5	
3	Building Construction	Building Construction	6/17/2015	11/3/2015	5	100	
4	Paving	Paving	11/4/2015	11/10/2015	5	5	
5	Architectural Coating	Architectural Coating	11/11/2015	12/17/2015	5	27	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,625; Non-Residential Outdoor: 15,208 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	0	8.00	174	0.41
Paving	Pavers	1	6.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Building Construction	Welders	3	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
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	966.00	16.80	6.60	4.20	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 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					
Fugitive Dust					5.4208	0.0000	5.4208	2.9128	0.0000	2.9128			0.0000			0.0000
Off-Road	1.4744	16.0208	12.0300	0.0109		0.8560	0.8560		0.7875	0.7875		1,144.6775	1,144.6775	0.3417		1,151.8539
Total	1.4744	16.0208	12.0300	0.0109	5.4208	0.8560	6.2768	2.9128	0.7875	3.7003		1,144.6775	1,144.6775	0.3417		1,151.8539

3.2 Site Preparation - 2015

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	0.0408	0.0638	0.5804	7.2000e-004	0.0639	6.4000e-004	0.0645	0.0169	5.8000e-004	0.0175		61.2144	61.2144	4.3800e-003			61.3063
Total	0.0408	0.0638	0.5804	7.2000e-004	0.0639	6.4000e-004	0.0645	0.0169	5.8000e-004	0.0175		61.2144	61.2144	4.3800e-003			61.3063

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1141	0.0000	2.1141	1.1360	0.0000	1.1360			0.0000			0.0000
Off-Road	1.4744	16.0208	12.0300	0.0109		0.8560	0.8560		0.7875	0.7875	0.0000	1,144.6775	1,144.6775	0.3417		1,151.8539
Total	1.4744	16.0208	12.0300	0.0109	2.1141	0.8560	2.9701	1.1360	0.7875	1.9235	0.0000	1,144.6775	1,144.6775	0.3417		1,151.8539

3.2 Site Preparation - 2015**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	0.0408	0.0638	0.5804	7.2000e-004	0.0639	6.4000e-004	0.0645	0.0169	5.8000e-004	0.0175		61.2144	61.2144	4.3800e-003		61.3063
Total	0.0408	0.0638	0.5804	7.2000e-004	0.0639	6.4000e-004	0.0645	0.0169	5.8000e-004	0.0175		61.2144	61.2144	4.3800e-003		61.3063

3.3 Grading - 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					
Fugitive Dust					4.9035	0.0000	4.9035	2.5320	0.0000	2.5320			0.0000			0.0000
Off-Road	2.0666	21.9443	14.0902	0.0141		1.1968	1.1968		1.1011	1.1011		1,479.8000	1,479.8000	0.4418		1,489.0774
Total	2.0666	21.9443	14.0902	0.0141	4.9035	1.1968	6.1003	2.5320	1.1011	3.6331		1,479.8000	1,479.8000	0.4418		1,489.0774

3.3 Grading - 2015

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	6.5924	17.1941	80.6542	0.0342	0.7098	0.2540	0.9638	0.1946	0.2327	0.4273		3,354.2292	3,354.2292	0.0362		3,354.9892
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	0.0653	0.1020	0.9286	1.1500e-003	0.1022	1.0200e-003	0.1032	0.0271	9.3000e-004	0.0280		97.9430	97.9430	7.0100e-003		98.0901
Total	6.6577	17.2961	81.5828	0.0354	0.8120	0.2550	1.0670	0.2217	0.2337	0.4554		3,452.1721	3,452.1721	0.0432		3,453.0794

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					1.9124	0.0000	1.9124	0.9875	0.0000	0.9875			0.0000			0.0000
Off-Road	2.0666	21.9443	14.0902	0.0141		1.1968	1.1968		1.1011	1.1011	0.0000	1,479.8000	1,479.8000	0.4418		1,489.0774
Total	2.0666	21.9443	14.0902	0.0141	1.9124	1.1968	3.1091	0.9875	1.1011	2.0886	0.0000	1,479.8000	1,479.8000	0.4418		1,489.0774

3.3 Grading - 2015

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	6.5924	17.1941	80.6542	0.0342	0.7098	0.2540	0.9638	0.1946	0.2327	0.4273		3,354.229 2	3,354.229 2	0.0362		3,354.989 2
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	0.0653	0.1020	0.9286	1.1500e-003	0.1022	1.0200e-003	0.1032	0.0271	9.3000e-004	0.0280		97.9430	97.9430	7.0100e-003		98.0901
Total	6.6577	17.2961	81.5828	0.0354	0.8120	0.2550	1.0670	0.2217	0.2337	0.4554		3,452.172 1	3,452.172 1	0.0432		3,453.079 4

3.4 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	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344		2,055.624 7	2,055.624 7	0.4741		2,065.581 2
Total	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344		2,055.624 7	2,055.624 7	0.4741		2,065.581 2

3.4 Building Construction - 2015

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	0.1877	0.7531	2.0417	1.5400e-003	0.0421	0.0140	0.0561	0.0120	0.0129	0.0249		153.2252	153.2252	1.5400e-003			153.2576
Worker	0.1388	0.2168	1.9733	2.4500e-003	0.2171	2.1800e-003	0.2193	0.0576	1.9700e-003	0.0596		208.1288	208.1288	0.0149			208.4416
Total	0.3265	0.9698	4.0150	3.9900e-003	0.2592	0.0162	0.2754	0.0696	0.0148	0.0844		361.3541	361.3541	0.0164			361.6991

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	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344	0.0000	2,055.6247	2,055.6247	0.4741			2,065.5812
Total	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344	0.0000	2,055.6247	2,055.6247	0.4741			2,065.5812

3.4 Building Construction - 2015

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	0.1877	0.7531	2.0417	1.5400e-003	0.0421	0.0140	0.0561	0.0120	0.0129	0.0249		153.2252	153.2252	1.5400e-003			153.2576
Worker	0.1388	0.2168	1.9733	2.4500e-003	0.2171	2.1800e-003	0.2193	0.0576	1.9700e-003	0.0596		208.1288	208.1288	0.0149			208.4416
Total	0.3265	0.9698	4.0150	3.9900e-003	0.2592	0.0162	0.2754	0.0696	0.0148	0.0844		361.3541	361.3541	0.0164			361.6991

3.5 Paving - 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	1.4041	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215		1,382.4703	1,382.4703	0.4054			1,390.9826
Paving	0.2568					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6609	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215		1,382.4703	1,382.4703	0.4054			1,390.9826

3.5 Paving - 2015

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	0.1061	0.1658	1.5090	1.8700e-003	0.1661	1.6600e-003	0.1677	0.0440	1.5000e-003	0.0455		159.1573	159.1573	0.0114			159.3965
Total	0.1061	0.1658	1.5090	1.8700e-003	0.1661	1.6600e-003	0.1677	0.0440	1.5000e-003	0.0455		159.1573	159.1573	0.0114			159.3965

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4041	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215	0.0000	1,382.4703	1,382.4703	0.4054			1,390.9826
Paving	0.2568					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6609	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215	0.0000	1,382.4703	1,382.4703	0.4054			1,390.9826

3.5 Paving - 2015

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	0.1061	0.1658	1.5090	1.8700e-003	0.1661	1.6600e-003	0.1677	0.0440	1.5000e-003	0.0455		159.1573	159.1573	0.0114		159.3965
Total	0.1061	0.1658	1.5090	1.8700e-003	0.1661	1.6600e-003	0.1677	0.0440	1.5000e-003	0.0455		159.1573	159.1573	0.0114		159.3965

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	5.2215					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	5.6281	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

3.6 Architectural Coating - 2015

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	0.0245	0.0383	0.3482	4.3000e-004	0.0383	3.8000e-004	0.0387	0.0102	3.5000e-004	0.0105		36.7286	36.7286	2.6300e-003			36.7838
Total	0.0245	0.0383	0.3482	4.3000e-004	0.0383	3.8000e-004	0.0387	0.0102	3.5000e-004	0.0105		36.7286	36.7286	2.6300e-003			36.7838

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	5.2215					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	0.0000	281.4481	281.4481	0.0367			282.2177
Total	5.6281	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367			282.2177

3.6 Architectural Coating - 2015

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	0.0245	0.0383	0.3482	4.3000e-004	0.0383	3.8000e-004	0.0387	0.0102	3.5000e-004	0.0105		36.7286	36.7286	2.6300e-003		36.7838
Total	0.0245	0.0383	0.3482	4.3000e-004	0.0383	3.8000e-004	0.0387	0.0102	3.5000e-004	0.0105		36.7286	36.7286	2.6300e-003		36.7838

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	4.3826	8.0336	41.4362	0.0318	1.9449	0.0970	2.0418	0.5209	0.0888	0.6097		2,883.3779	2,883.3779	0.1686		2,886.9184
Unmitigated	4.3826	8.0336	41.4362	0.0318	1.9449	0.0970	2.0418	0.5209	0.0888	0.6097		2,883.3779	2,883.3779	0.1686		2,886.9184

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Free-Standing Discount Store	582.67	582.67	582.67	910,907	910,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	582.67	582.67	582.67	910,907	910,907

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
Free-Standing Discount Store	14.70	6.60	6.60	12.20	68.80	19.00	47.5	35.5	17
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.327285	0.070031	0.247645	0.163317	0.088208	0.010139	0.018123	0.057747	0.001598	0.000817	0.009135	0.000630	0.005325

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.2700e-003	0.0206	0.0173	1.2000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003		24.7233	24.7233	4.7000e-004	4.5000e-004	24.8737
NaturalGas Unmitigated	3.0000e-003	0.0273	0.0229	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.7043	32.7043	6.3000e-004	6.0000e-004	32.9033

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					
Free-Standing Discount Store	277.986	3.0000e-003	0.0273	0.0229	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.7043	32.7043	6.3000e-004	6.0000e-004	32.9033
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.0000e-003	0.0273	0.0229	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.7043	32.7043	6.3000e-004	6.0000e-004	32.9033

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount Store	0.210148	2.2700e-003	0.0206	0.0173	1.2000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003		24.7233	24.7233	4.7000e-004	4.5000e-004	24.8737
Total		2.2700e-003	0.0206	0.0173	1.2000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003		24.7233	24.7233	4.7000e-004	4.5000e-004	24.8737

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9723	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Unmitigated	1.1268	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1931					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Total	1.1268	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0386					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101
Total	0.9723	4.0000e-005	4.6000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5400e-003	9.5400e-003	3.0000e-005		0.0101

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Dollar General Alta Sierra JN 5780c
Northern Sierra AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Free-Standing Discount Store	9.10	1000sqft	0.21	9,100.00	0
Parking Lot	34.00	Space	0.31	13,600.00	0
Other Non-Asphalt Surfaces	0.30	Acre	0.30	13,068.00	0
Other Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	72
Climate Zone	3			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project site is one acre with a 9,100 SF free-standing Dollar store, 34-space parking lot with approximately 30% of the site landscaped, the balance of the site is asphalt.

Construction Phase - Site prep includes work for the off-site septic. Painting duration includes application of parking lot striping.

Off-road Equipment - No grader for site prep, used in grading only

Grading - Site is 1 acre. 8381 CY cut minus 653 CY of fill = 7728 CY to be exported off-site.

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Distance to haul site (11727 La Barr Meadows Rd) is 4.2 miles one-way

Vehicle Trips - Trip generation rate in TIA is 64.03 trips per TSF

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - 2013 commercial Title 24 standards are 30% more efficient than 2008 Title 24 standards

Water Mitigation - Green building standards require 20% reduction in indoor water use

Waste Mitigation - AB 939 requires 50% reduction in waste to landfill

Architectural Coating - Limit paints to 50g/L VOC.

Area Coating -

Area Mitigation - Limit paints to 50g/L VOC

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	1.00	7.00
tblGrading	AcresOfGrading	1.88	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	MaterialExported	0.00	7,728.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblVehicleTrips	ST_TR	71.07	64.03
tblVehicleTrips	SU_TR	56.36	64.03
tblVehicleTrips	WD_TR	57.24	64.03

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	0.2056	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.8000e-004	7.8000e-004	0.0000	0.0000	8.3000e-004
Energy	5.5000e-004	4.9700e-003	4.1800e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	33.0660	33.0660	1.3500e-003	3.6000e-004	33.2054
Mobile	0.7103	1.4083	6.5427	5.8200e-003	0.3391	0.0175	0.3566	0.0912	0.0160	0.1072	0.0000	480.5351	480.5351	0.0278	0.0000	481.1183
Waste						0.0000	0.0000		0.0000	0.0000	7.9451	0.0000	7.9451	0.4695	0.0000	17.8054
Water						0.0000	0.0000		0.0000	0.0000	0.2139	1.4817	1.6956	0.0220	5.3000e-004	2.3233
Total	0.9164	1.4132	6.5473	5.8500e-003	0.3391	0.0179	0.3570	0.0912	0.0164	0.1076	8.1589	515.0835	523.2424	0.5207	8.9000e-004	534.4532

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	0.1774	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.8000e-004	7.8000e-004	0.0000	0.0000	8.3000e-004
Energy	4.1000e-004	3.7600e-003	3.1600e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	29.6718	29.6718	1.2400e-003	3.1000e-004	29.7952
Mobile	0.7103	1.4083	6.5427	5.8200e-003	0.3391	0.0175	0.3566	0.0912	0.0160	0.1072	0.0000	480.5351	480.5351	0.0278	0.0000	481.1183
Waste						0.0000	0.0000		0.0000	0.0000	3.9725	0.0000	3.9725	0.2348	0.0000	8.9027
Water						0.0000	0.0000		0.0000	0.0000	0.1711	1.1986	1.3697	0.0176	4.3000e-004	1.8719
Total	0.8881	1.4120	6.5462	5.8400e-003	0.3391	0.0178	0.3569	0.0912	0.0163	0.1075	4.1436	511.4062	515.5499	0.2814	7.4000e-004	521.6889

	ROG	NOx	CO	SO2	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	3.09	0.09	0.02	0.17	0.00	0.50	0.03	0.00	0.55	0.08	49.21	0.71	1.47	45.95	16.85	2.39

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	6/1/2015	6/9/2015	5	7	
2	Grading	Grading	6/10/2015	6/16/2015	5	5	
3	Building Construction	Building Construction	6/17/2015	11/3/2015	5	100	
4	Paving	Paving	11/4/2015	11/10/2015	5	5	
5	Architectural Coating	Architectural Coating	11/11/2015	12/17/2015	5	27	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,625; Non-Residential Outdoor: 15,208 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	0	8.00	174	0.41
Paving	Pavers	1	6.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Building Construction	Welders	3	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
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	966.00	16.80	6.60	4.20	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 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					
Fugitive Dust					0.0190	0.0000	0.0190	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1600e-003	0.0561	0.0421	4.0000e-005		3.0000e-003	3.0000e-003		2.7600e-003	2.7600e-003	0.0000	3.6345	3.6345	1.0900e-003	0.0000	3.6573
Total	5.1600e-003	0.0561	0.0421	4.0000e-005	0.0190	3.0000e-003	0.0220	0.0102	2.7600e-003	0.0130	0.0000	3.6345	3.6345	1.0900e-003	0.0000	3.6573

3.2 Site Preparation - 2015

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	1.3000e-004	2.0000e-004	1.9300e-003	0.0000	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1974	0.1974	1.0000e-005	0.0000	0.1976
Total	1.3000e-004	2.0000e-004	1.9300e-003	0.0000	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1974	0.1974	1.0000e-005	0.0000	0.1976

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					7.4000e-003	0.0000	7.4000e-003	3.9800e-003	0.0000	3.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1600e-003	0.0561	0.0421	4.0000e-005		3.0000e-003	3.0000e-003		2.7600e-003	2.7600e-003	0.0000	3.6345	3.6345	1.0900e-003	0.0000	3.6573
Total	5.1600e-003	0.0561	0.0421	4.0000e-005	7.4000e-003	3.0000e-003	0.0104	3.9800e-003	2.7600e-003	6.7400e-003	0.0000	3.6345	3.6345	1.0900e-003	0.0000	3.6573

3.2 Site Preparation - 2015

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	1.3000e-004	2.0000e-004	1.9300e-003	0.0000	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1974	0.1974	1.0000e-005	0.0000	0.1976
Total	1.3000e-004	2.0000e-004	1.9300e-003	0.0000	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1974	0.1974	1.0000e-005	0.0000	0.1976

3.3 Grading - 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					
Fugitive Dust					0.0123	0.0000	0.0123	6.3300e-003	0.0000	6.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1700e-003	0.0549	0.0352	4.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	3.3561	3.3561	1.0000e-003	0.0000	3.3772
Total	5.1700e-003	0.0549	0.0352	4.0000e-005	0.0123	2.9900e-003	0.0153	6.3300e-003	2.7500e-003	9.0800e-003	0.0000	3.3561	3.3561	1.0000e-003	0.0000	3.3772

3.3 Grading - 2015

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	0.0134	0.0424	0.1630	9.0000e-005	1.7100e-003	6.3000e-004	2.3400e-003	4.7000e-004	5.8000e-004	1.0500e-003	0.0000	7.6525	7.6525	8.0000e-005	0.0000	7.6542
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	1.5000e-004	2.3000e-004	2.2000e-003	0.0000	2.4000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2255	0.2255	2.0000e-005	0.0000	0.2259
Total	0.0135	0.0426	0.1652	9.0000e-005	1.9500e-003	6.3000e-004	2.5900e-003	5.4000e-004	5.8000e-004	1.1200e-003	0.0000	7.8780	7.8780	1.0000e-004	0.0000	7.8801

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					4.7800e-003	0.0000	4.7800e-003	2.4700e-003	0.0000	2.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1700e-003	0.0549	0.0352	4.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	3.3561	3.3561	1.0000e-003	0.0000	3.3772
Total	5.1700e-003	0.0549	0.0352	4.0000e-005	4.7800e-003	2.9900e-003	7.7700e-003	2.4700e-003	2.7500e-003	5.2200e-003	0.0000	3.3561	3.3561	1.0000e-003	0.0000	3.3772

3.3 Grading - 2015

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	0.0134	0.0424	0.1630	9.0000e-005	1.7100e-003	6.3000e-004	2.3400e-003	4.7000e-004	5.8000e-004	1.0500e-003	0.0000	7.6525	7.6525	8.0000e-005	0.0000	7.6542
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	1.5000e-004	2.3000e-004	2.2000e-003	0.0000	2.4000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2255	0.2255	2.0000e-005	0.0000	0.2259
Total	0.0135	0.0426	0.1652	9.0000e-005	1.9500e-003	6.3000e-004	2.5900e-003	5.4000e-004	5.8000e-004	1.1200e-003	0.0000	7.8780	7.8780	1.0000e-004	0.0000	7.8801

3.4 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	0.1800	1.0782	0.7502	1.1000e-003		0.0743	0.0743		0.0717	0.0717	0.0000	93.2416	93.2416	0.0215	0.0000	93.6932
Total	0.1800	1.0782	0.7502	1.1000e-003		0.0743	0.0743		0.0717	0.0717	0.0000	93.2416	93.2416	0.0215	0.0000	93.6932

3.4 Building Construction - 2015

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	0.0000
Vendor	7.7900e-003	0.0372	0.0823	8.0000e-005	2.0300e-003	6.9000e-004	2.7200e-003	5.8000e-004	6.4000e-004	1.2200e-003	0.0000	6.9838	6.9838	7.0000e-005	0.0000	0.0000	6.9852
Worker	6.4600e-003	9.9000e-003	0.0935	1.2000e-004	0.0104	1.1000e-004	0.0105	2.7600e-003	1.0000e-004	2.8600e-003	0.0000	9.5855	9.5855	6.8000e-004	0.0000	0.0000	9.5997
Total	0.0143	0.0471	0.1758	2.0000e-004	0.0124	8.0000e-004	0.0132	3.3400e-003	7.4000e-004	4.0800e-003	0.0000	16.5693	16.5693	7.5000e-004	0.0000	0.0000	16.5849

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	0.1800	1.0782	0.7502	1.1000e-003		0.0743	0.0743		0.0717	0.0717	0.0000	93.2415	93.2415	0.0215	0.0000	93.6931
Total	0.1800	1.0782	0.7502	1.1000e-003		0.0743	0.0743		0.0717	0.0717	0.0000	93.2415	93.2415	0.0215	0.0000	93.6931

3.4 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7900e-003	0.0372	0.0823	8.0000e-005	2.0300e-003	6.9000e-004	2.7200e-003	5.8000e-004	6.4000e-004	1.2200e-003	0.0000	6.9838	6.9838	7.0000e-005	0.0000	6.9852
Worker	6.4600e-003	9.9000e-003	0.0935	1.2000e-004	0.0104	1.1000e-004	0.0105	2.7600e-003	1.0000e-004	2.8600e-003	0.0000	9.5855	9.5855	6.8000e-004	0.0000	9.5997
Total	0.0143	0.0471	0.1758	2.0000e-004	0.0124	8.0000e-004	0.0132	3.3400e-003	7.4000e-004	4.0800e-003	0.0000	16.5693	16.5693	7.5000e-004	0.0000	16.5849

3.5 Paving - 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	3.5100e-003	0.0365	0.0229	3.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	3.1354	3.1354	9.2000e-004	0.0000	3.1547
Paving	6.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.1500e-003	0.0365	0.0229	3.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	3.1354	3.1354	9.2000e-004	0.0000	3.1547

3.5 Paving - 2015

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	2.5000e-004	3.8000e-004	3.5800e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3665	0.3665	3.0000e-005	0.0000	0.3671
Total	2.5000e-004	3.8000e-004	3.5800e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3665	0.3665	3.0000e-005	0.0000	0.3671

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	3.5100e-003	0.0365	0.0229	3.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	3.1354	3.1354	9.2000e-004	0.0000	3.1547
Paving	6.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.1500e-003	0.0365	0.0229	3.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	3.1354	3.1354	9.2000e-004	0.0000	3.1547

3.5 Paving - 2015

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	2.5000e-004	3.8000e-004	3.5800e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3665	0.3665	3.0000e-005	0.0000	0.3671
Total	2.5000e-004	3.8000e-004	3.5800e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3665	0.3665	3.0000e-005	0.0000	0.3671

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	0.0705					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4900e-003	0.0347	0.0257	4.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	3.4469	3.4469	4.5000e-004	0.0000	3.4563
Total	0.0760	0.0347	0.0257	4.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	3.4469	3.4469	4.5000e-004	0.0000	3.4563

3.6 Architectural Coating - 2015

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	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	0.0000
Worker	3.1000e-004	4.7000e-004	4.4600e-003	1.0000e-005	5.0000e-004	1.0000e-005	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4567	0.4567	3.0000e-005	0.0000	0.4574	
Total	3.1000e-004	4.7000e-004	4.4600e-003	1.0000e-005	5.0000e-004	1.0000e-005	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4567	0.4567	3.0000e-005	0.0000	0.4574	

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	0.0705					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4900e-003	0.0347	0.0257	4.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	3.4469	3.4469	4.5000e-004	0.0000	3.4563
Total	0.0760	0.0347	0.0257	4.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	3.4469	3.4469	4.5000e-004	0.0000	3.4563

3.6 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	4.7000e-004	4.4600e-003	1.0000e-005	5.0000e-004	1.0000e-005	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4567	0.4567	3.0000e-005	0.0000	0.4574
Total	3.1000e-004	4.7000e-004	4.4600e-003	1.0000e-005	5.0000e-004	1.0000e-005	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4567	0.4567	3.0000e-005	0.0000	0.4574

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	0.7103	1.4083	6.5427	5.8200e-003	0.3391	0.0175	0.3566	0.0912	0.0160	0.1072	0.0000	480.5351	480.5351	0.0278	0.0000	481.1183
Unmitigated	0.7103	1.4083	6.5427	5.8200e-003	0.3391	0.0175	0.3566	0.0912	0.0160	0.1072	0.0000	480.5351	480.5351	0.0278	0.0000	481.1183

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Free-Standing Discount Store	582.67	582.67	582.67	910,907	910,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	582.67	582.67	582.67	910,907	910,907

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
Free-Standing Discount Store	14.70	6.60	6.60	12.20	68.80	19.00	47.5	35.5	17
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.327285	0.070031	0.247645	0.163317	0.088208	0.010139	0.018123	0.057747	0.001598	0.000817	0.009135	0.000630	0.005325

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	25.5786	25.5786	1.1600e-003	2.4000e-004	25.6771
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	27.6514	27.6514	1.2500e-003	2.6000e-004	27.7579
NaturalGas Mitigated	4.1000e-004	3.7600e-003	3.1600e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.0932	4.0932	8.0000e-005	8.0000e-005	4.1181
NaturalGas Unmitigated	5.5000e-004	4.9700e-003	4.1800e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.4146	5.4146	1.0000e-004	1.0000e-004	5.4475

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					
Free-Standing Discount Store	101465	5.5000e-004	4.9700e-003	4.1800e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.4146	5.4146	1.0000e-004	1.0000e-004	5.4475
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.5000e-004	4.9700e-003	4.1800e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.4146	5.4146	1.0000e-004	1.0000e-004	5.4475

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					
Free-Standing Discount Store	76703.9	4.1000e-004	3.7600e-003	3.1600e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.0932	4.0932	8.0000e-005	8.0000e-005	4.1181
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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		4.1000e-004	3.7600e-003	3.1600e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.0932	4.0932	8.0000e-005	8.0000e-005	4.1181

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Free-Standing Discount Store	83083	24.1698	1.0900e-003	2.3000e-004	24.2628
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	11968	3.4816	1.6000e-004	3.0000e-005	3.4950
Total		27.6514	1.2500e-003	2.6000e-004	27.7579

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Free-Standing Discount Store	75957.7	22.0970	1.0000e-003	2.1000e-004	22.1820
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	11968	3.4816	1.6000e-004	3.0000e-005	3.4950
Total		25.5786	1.1600e-003	2.4000e-004	25.6771

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1774	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.8000e-004	7.8000e-004	0.0000	0.0000	8.3000e-004
Unmitigated	0.2056	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.8000e-004	7.8000e-004	0.0000	0.0000	8.3000e-004

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	0.0353					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.8000e-004	7.8000e-004	0.0000	0.0000	8.3000e-004
Total	0.2056	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.8000e-004	7.8000e-004	0.0000	0.0000	8.3000e-004

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	7.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.8000e-004	7.8000e-004	0.0000	0.0000	8.3000e-004
Total	0.1774	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.8000e-004	7.8000e-004	0.0000	0.0000	8.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.3697	0.0176	4.3000e-004	1.8719
Unmitigated	1.6956	0.0220	5.3000e-004	2.3233

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Free-Standing Discount Store	0.67406 / 0.413134	1.6956	0.0220	5.3000e-004	2.3233
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1.6956	0.0220	5.3000e-004	2.3233

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Free-Standing Discount Store	0.539248 / 0.413134	1.3697	0.0176	4.3000e-004	1.8719
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1.3697	0.0176	4.3000e-004	1.8719

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.9725	0.2348	0.0000	8.9027
Unmitigated	7.9451	0.4695	0.0000	17.8054

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Free-Standing Discount Store	39.14	7.9451	0.4695	0.0000	17.8054
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		7.9451	0.4695	0.0000	17.8054

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Free-Standing Discount Store	19.57	3.9725	0.2348	0.0000	8.9027
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.9725	0.2348	0.0000	8.9027

9.0 Operational Offroad

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