

Appendix A1

CalEEMod Air Quality Reports – Proposed Project (Annual, Summer, Winter)

Project - Annual Emissions

Deer Springs Mega Mart Project - San Diego Air Basin, Annual

Deer Springs Mega Mart Project

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.88	1000sqft	0.41	17,879.00	0
Parking Lot	19.00	Space	0.17	7,600.00	0
Convenience Market With Gas Pumps	3.50	1000sqft	0.08	3,500.00	0
Gasoline/Service Station	16.00	Pump	0.05	2,258.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Model updated based on site plan dated 3/22/2019.

Land Use - Land Use - Total new imperv 17,879SF as "Other Asphalt Surfaces" (total proposed imperv 31,238SF minus parking lot, gas pumps, and building footprint); "Proposed Perv" (38,707SF) not included in analysis. LU total = 0.71 acre, which reflects imperv surface development and project area actively use during project operations.

Construction Phase - Per client info 3/22/2019

Grading - Per client info 4/17/2019; confirmed 8/8/2019

Demolition - Per client info

Trips and VMT - Haul trips adjusted per client info re: grading/import and export

Vehicle Trips - Per project traffic study, adjusted per pump

Energy Use -

Water Mitigation - County of SD - 40% outdoor water reduction to meet MAWA per CAP Checklist

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblGrading	AcresOfGrading	0.00	1.30
tblGrading	AcresOfGrading	0.50	1.30
tblGrading	MaterialExported	0.00	532.00
tblGrading	MaterialImported	0.00	4,691.00
tblLandUse	LandUseSquareFeet	17,880.00	17,879.00
tblTripsAndVMT	HaulingTripNumber	67.00	54.00
tblTripsAndVMT	HaulingTripNumber	586.00	480.00
tblVehicleTrips	ST_TR	1,448.33	40.00
tblVehicleTrips	ST_TR	168.56	104.50
tblVehicleTrips	SU_TR	1,182.08	40.00
tblVehicleTrips	SU_TR	168.56	104.50
tblVehicleTrips	WD_TR	845.60	40.00
tblVehicleTrips	WD_TR	168.56	104.50

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2927	1.2448	0.6411	2.6800e-003	0.0583	0.0332	0.0915	0.0134	0.0310	0.0443	0.0000	256.1461	256.1461	0.0354	0.0000	257.0304
Maximum	0.2927	1.2448	0.6411	2.6800e-003	0.0583	0.0332	0.0915	0.0134	0.0310	0.0443	0.0000	256.1461	256.1461	0.0354	0.0000	257.0304

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2927	1.2448	0.6411	2.6800e-003	0.0378	0.0332	0.0711	9.6000e-003	0.0310	0.0406	0.0000	256.1460	256.1460	0.0354	0.0000	257.0304
Maximum	0.2927	1.2448	0.6411	2.6800e-003	0.0378	0.0332	0.0711	9.6000e-003	0.0310	0.0406	0.0000	256.1460	256.1460	0.0354	0.0000	257.0304

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	35.08	0.00	22.35	28.09	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.1826	1.1826
2	4-1-2020	6-30-2020	0.3190	0.3190
3	7-1-2020	9-30-2020	0.0410	0.0410
		Highest	1.1826	1.1826

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	0.0318	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0700e-003
Energy	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	23.1802	23.1802	8.9000e-004	2.1000e-004	23.2655
Mobile	0.3634	1.2796	2.5689	5.5800e-003	0.3914	5.5100e-003	0.3969	0.1048	5.1400e-003	0.1099	0.0000	516.1689	516.1689	0.0399	0.0000	517.1656
Waste						0.0000	0.0000		0.0000	0.0000	3.8853	0.0000	3.8853	0.2296	0.0000	9.6255
Water						0.0000	0.0000		0.0000	0.0000	0.1497	3.0574	3.2071	0.0155	3.9000e-004	3.7102
Total	0.3953	1.2813	2.5709	5.5900e-003	0.3914	5.6400e-003	0.3970	0.1048	5.2700e-003	0.1101	4.0349	542.4074	546.4424	0.2859	6.0000e-004	553.7678

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0301	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0700e-003
Energy	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	23.1802	23.1802	8.9000e-004	2.1000e-004	23.2655
Mobile	0.3662	1.2973	2.6307	5.8400e-003	0.4146	5.7200e-003	0.4204	0.1110	5.3300e-003	0.1164	0.0000	539.7585	539.7585	0.0409	0.0000	540.7818
Waste						0.0000	0.0000		0.0000	0.0000	3.8853	0.0000	3.8853	0.2296	0.0000	9.6255
Water						0.0000	0.0000		0.0000	0.0000	0.1497	2.6374	2.7871	0.0155	3.8000e-004	3.2888
Total	0.3965	1.2989	2.6327	5.8500e-003	0.4146	5.8500e-003	0.4205	0.1110	5.4600e-003	0.1165	4.0349	565.5771	569.6121	0.2869	5.9000e-004	576.9627

	ROG	NOx	CO	SO2	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	-0.29	-1.38	-2.40	-4.65	-5.95	-3.72	-5.92	-5.95	-3.61	-5.84	0.00	-4.27	-4.24	-0.36	1.67	-4.19

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/20/2020	5	10	
2	Site Preparation	Site Preparation	1/15/2020	2/14/2020	5	1	
3	Grading	Grading	1/16/2020	2/4/2020	5	2	
4	Building Construction	Building Construction	1/18/2020	4/10/2020	5	100	
5	Paving	Paving	6/6/2020	7/6/2020	5	5	
6	Architectural Coating	Architectural Coating	6/13/2020	7/2/2020	5	5	

Acres of Grading (Site Preparation Phase): 1.3

Acres of Grading (Grading Phase): 1.3

Acres of Paving: 0.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,638; Non-Residential Outdoor: 2,879; Striped Parking Area: 1,529 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	53.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	54.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	480.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	13.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0700e-003	0.0000	8.0700e-003	1.2200e-003	0.0000	1.2200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0700e-003	0.0551	0.0534	8.0000e-005		3.2700e-003	3.2700e-003		3.1200e-003	3.1200e-003	0.0000	7.2853	7.2853	1.3800e-003	0.0000	7.3197
Total	6.0700e-003	0.0551	0.0534	8.0000e-005	8.0700e-003	3.2700e-003	0.0113	1.2200e-003	3.1200e-003	4.3400e-003	0.0000	7.2853	7.2853	1.3800e-003	0.0000	7.3197

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3.2 Demolition - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	0.0106	2.4200e-003	3.0000e-005	5.0000e-004	3.0000e-005	5.3000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	2.8613	2.8613	2.6000e-004	0.0000	2.8678
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	2.6000e-004	1.9000e-004	1.8700e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5074	0.5074	2.0000e-005	0.0000	0.5078
Total	5.6000e-004	0.0107	4.2900e-003	4.0000e-005	1.0600e-003	3.0000e-005	1.1000e-003	2.9000e-004	3.0000e-005	3.2000e-004	0.0000	3.3687	3.3687	2.8000e-004	0.0000	3.3756

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					3.6300e-003	0.0000	3.6300e-003	5.5000e-004	0.0000	5.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0700e-003	0.0551	0.0534	8.0000e-005		3.2700e-003	3.2700e-003		3.1200e-003	3.1200e-003	0.0000	7.2853	7.2853	1.3800e-003	0.0000	7.3197
Total	6.0700e-003	0.0551	0.0534	8.0000e-005	3.6300e-003	3.2700e-003	6.9000e-003	5.5000e-004	3.1200e-003	3.6700e-003	0.0000	7.2853	7.2853	1.3800e-003	0.0000	7.3197

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3.2 Demolition - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	0.0106	2.4200e-003	3.0000e-005	5.0000e-004	3.0000e-005	5.3000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	2.8613	2.8613	2.6000e-004	0.0000	2.8678
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	2.6000e-004	1.9000e-004	1.8700e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5074	0.5074	2.0000e-005	0.0000	0.5078
Total	5.6000e-004	0.0107	4.2900e-003	4.0000e-005	1.0600e-003	3.0000e-005	1.1000e-003	2.9000e-004	3.0000e-005	3.2000e-004	0.0000	3.3687	3.3687	2.8000e-004	0.0000	3.3756

3.3 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0167	0.0000	0.0167	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8800e-003	0.0970	0.0471	1.1000e-004		3.8600e-003	3.8600e-003		3.5500e-003	3.5500e-003	0.0000	9.8431	9.8431	3.1800e-003	0.0000	9.9226
Total	7.8800e-003	0.0970	0.0471	1.1000e-004	0.0167	3.8600e-003	0.0206	1.8400e-003	3.5500e-003	5.3900e-003	0.0000	9.8431	9.8431	3.1800e-003	0.0000	9.9226

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3.3 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9700e-003	0.1767	0.0405	4.8000e-004	2.9900e-003	5.6000e-004	3.5500e-003	1.0400e-003	5.3000e-004	1.5800e-003	0.0000	47.8946	47.8946	4.3100e-003	0.0000	48.0024
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	2.1000e-004	1.6000e-004	1.5400e-003	0.0000	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.4168	0.4168	1.0000e-005	0.0000	0.4171
Total	5.1800e-003	0.1768	0.0420	4.8000e-004	3.4500e-003	5.6000e-004	4.0100e-003	1.1600e-003	5.3000e-004	1.7100e-003	0.0000	48.3114	48.3114	4.3200e-003	0.0000	48.4195

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					7.5200e-003	0.0000	7.5200e-003	8.3000e-004	0.0000	8.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8800e-003	0.0970	0.0471	1.1000e-004		3.8600e-003	3.8600e-003		3.5500e-003	3.5500e-003	0.0000	9.8430	9.8430	3.1800e-003	0.0000	9.9226
Total	7.8800e-003	0.0970	0.0471	1.1000e-004	7.5200e-003	3.8600e-003	0.0114	8.3000e-004	3.5500e-003	4.3800e-003	0.0000	9.8430	9.8430	3.1800e-003	0.0000	9.9226

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3.3 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9700e-003	0.1767	0.0405	4.8000e-004	2.9900e-003	5.6000e-004	3.5500e-003	1.0400e-003	5.3000e-004	1.5800e-003	0.0000	47.8946	47.8946	4.3100e-003	0.0000	48.0024
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	2.1000e-004	1.6000e-004	1.5400e-003	0.0000	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.4168	0.4168	1.0000e-005	0.0000	0.4171
Total	5.1800e-003	0.1768	0.0420	4.8000e-004	3.4500e-003	5.6000e-004	4.0100e-003	1.1600e-003	5.3000e-004	1.7100e-003	0.0000	48.3114	48.3114	4.3200e-003	0.0000	48.4195

3.4 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	3.7700e-003	0.0000	3.7700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0700e-003	0.0551	0.0534	8.0000e-005		3.2700e-003	3.2700e-003		3.1200e-003	3.1200e-003	0.0000	7.2853	7.2853	1.3800e-003	0.0000	7.3197
Total	6.0700e-003	0.0551	0.0534	8.0000e-005	0.0124	3.2700e-003	0.0157	3.7700e-003	3.1200e-003	6.8900e-003	0.0000	7.2853	7.2853	1.3800e-003	0.0000	7.3197

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3.4 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0134	0.4779	0.1095	1.3100e-003	0.0102	1.5100e-003	0.0117	3.3500e-003	1.4400e-003	4.7900e-003	0.0000	129.5698	129.5698	0.0117	0.0000	129.8615
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	2.6000e-004	1.9000e-004	1.8700e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5074	0.5074	2.0000e-005	0.0000	0.5078
Total	0.0137	0.4781	0.1113	1.3200e-003	0.0108	1.5100e-003	0.0123	3.5000e-003	1.4400e-003	4.9400e-003	0.0000	130.0772	130.0772	0.0117	0.0000	130.3693

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					5.5800e-003	0.0000	5.5800e-003	1.7000e-003	0.0000	1.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0700e-003	0.0551	0.0534	8.0000e-005		3.2700e-003	3.2700e-003		3.1200e-003	3.1200e-003	0.0000	7.2853	7.2853	1.3800e-003	0.0000	7.3197
Total	6.0700e-003	0.0551	0.0534	8.0000e-005	5.5800e-003	3.2700e-003	8.8500e-003	1.7000e-003	3.1200e-003	4.8200e-003	0.0000	7.2853	7.2853	1.3800e-003	0.0000	7.3197

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3.4 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0134	0.4779	0.1095	1.3100e-003	0.0102	1.5100e-003	0.0117	3.3500e-003	1.4400e-003	4.7900e-003	0.0000	129.5698	129.5698	0.0117	0.0000	129.8615
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	2.6000e-004	1.9000e-004	1.8700e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5074	0.5074	2.0000e-005	0.0000	0.5078
Total	0.0137	0.4781	0.1113	1.3200e-003	0.0108	1.5100e-003	0.0123	3.5000e-003	1.4400e-003	4.9400e-003	0.0000	130.0772	130.0772	0.0117	0.0000	130.3693

3.5 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0259	0.2656	0.2216	3.4000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	30.0182	30.0182	9.7100e-003	0.0000	30.2609
Total	0.0259	0.2656	0.2216	3.4000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	30.0182	30.0182	9.7100e-003	0.0000	30.2609

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3.5 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0171	4.5400e-003	4.0000e-005	1.0000e-003	8.0000e-005	1.0800e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	3.9579	3.9579	3.0000e-004	0.0000	3.9655
Worker	1.4400e-003	1.0600e-003	0.0104	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.8270	2.8270	8.0000e-005	0.0000	2.8291
Total	2.0100e-003	0.0182	0.0150	7.0000e-005	4.1300e-003	1.0000e-004	4.2300e-003	1.1200e-003	1.0000e-004	1.2200e-003	0.0000	6.7849	6.7849	3.8000e-004	0.0000	6.7947

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	0.0259	0.2656	0.2216	3.4000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	30.0181	30.0181	9.7100e-003	0.0000	30.2608
Total	0.0259	0.2656	0.2216	3.4000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	30.0181	30.0181	9.7100e-003	0.0000	30.2608

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3.5 Building Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0171	4.5400e-003	4.0000e-005	1.0000e-003	8.0000e-005	1.0800e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	3.9579	3.9579	3.0000e-004	0.0000	3.9655
Worker	1.4400e-003	1.0600e-003	0.0104	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.8270	2.8270	8.0000e-005	0.0000	2.8291
Total	2.0100e-003	0.0182	0.0150	7.0000e-005	4.1300e-003	1.0000e-004	4.2300e-003	1.1200e-003	1.0000e-004	1.2200e-003	0.0000	6.7849	6.7849	3.8000e-004	0.0000	6.7947

3.6 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.1000e-003	0.0759	0.0747	1.2000e-004		4.1500e-003	4.1500e-003		3.8500e-003	3.8500e-003	0.0000	9.8626	9.8626	2.8700e-003	0.0000	9.9344
Paving	3.1900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0113	0.0759	0.0747	1.2000e-004		4.1500e-003	4.1500e-003		3.8500e-003	3.8500e-003	0.0000	9.8626	9.8626	2.8700e-003	0.0000	9.9344

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3.6 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	5.2000e-004	5.0600e-003	2.0000e-005	1.5200e-003	1.0000e-005	1.5300e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3700	1.3700	4.0000e-005	0.0000	1.3710
Total	7.0000e-004	5.2000e-004	5.0600e-003	2.0000e-005	1.5200e-003	1.0000e-005	1.5300e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3700	1.3700	4.0000e-005	0.0000	1.3710

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	8.1000e-003	0.0759	0.0747	1.2000e-004		4.1500e-003	4.1500e-003		3.8500e-003	3.8500e-003	0.0000	9.8626	9.8626	2.8700e-003	0.0000	9.9344
Paving	3.1900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0113	0.0759	0.0747	1.2000e-004		4.1500e-003	4.1500e-003		3.8500e-003	3.8500e-003	0.0000	9.8626	9.8626	2.8700e-003	0.0000	9.9344

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3.6 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	5.2000e-004	5.0600e-003	2.0000e-005	1.5200e-003	1.0000e-005	1.5300e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3700	1.3700	4.0000e-005	0.0000	1.3710
Total	7.0000e-004	5.2000e-004	5.0600e-003	2.0000e-005	1.5200e-003	1.0000e-005	1.5300e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3700	1.3700	4.0000e-005	0.0000	1.3710

3.7 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-003	0.0118	0.0128	2.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	1.7873	1.7873	1.4000e-004	0.0000	1.7907
Total	0.2133	0.0118	0.0128	2.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	1.7873	1.7873	1.4000e-004	0.0000	1.7907

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3.7 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1522	0.1522	0.0000	0.0000	0.1523
Total	8.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1522	0.1522	0.0000	0.0000	0.1523

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	0.2116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-003	0.0118	0.0128	2.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	1.7873	1.7873	1.4000e-004	0.0000	1.7907
Total	0.2133	0.0118	0.0128	2.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	1.7873	1.7873	1.4000e-004	0.0000	1.7907

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3.7 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1522	0.1522	0.0000	0.0000	0.1523
Total	8.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1522	0.1522	0.0000	0.0000	0.1523

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3662	1.2973	2.6307	5.8400e-003	0.4146	5.7200e-003	0.4204	0.1110	5.3300e-003	0.1164	0.0000	539.7585	539.7585	0.0409	0.0000	540.7818
Unmitigated	0.3634	1.2796	2.5689	5.5800e-003	0.3914	5.5100e-003	0.3969	0.1048	5.1400e-003	0.1099	0.0000	516.1689	516.1689	0.0399	0.0000	517.1656

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	140.00	140.00	140.00	75,097	79,565
Gasoline/Service Station	1,672.00	1,672.00	1,672.00	963,353	1,020,673
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,812.00	1,812.00	1,812.00	1,038,450	1,100,238

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
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Gasoline/Service Station	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Parking Lot	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21.3702	21.3702	8.6000e-004	1.8000e-004	21.4448
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21.3702	21.3702	8.6000e-004	1.8000e-004	21.4448
NaturalGas Mitigated	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8099	1.8099	3.0000e-005	3.0000e-005	1.8207
NaturalGas Unmitigated	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8099	1.8099	3.0000e-005	3.0000e-005	1.8207

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market With Gas Pumps	7805	4.0000e-005	3.8000e-004	3.2000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4165	0.4165	1.0000e-005	1.0000e-005	0.4190
Gasoline/Service Station	26111.7	1.4000e-004	1.2800e-003	1.0800e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.3934	1.3934	3.0000e-005	3.0000e-005	1.4017
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
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		1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8099	1.8099	4.0000e-005	4.0000e-005	1.8207

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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					
Convenience Market With Gas Pumps	7805	4.0000e-005	3.8000e-004	3.2000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4165	0.4165	1.0000e-005	1.0000e-005	0.4190
Gasoline/Service Station	26111.7	1.4000e-004	1.2800e-003	1.0800e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.3934	1.3934	3.0000e-005	3.0000e-005	1.4017
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
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		1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8099	1.8099	4.0000e-005	4.0000e-005	1.8207

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	43960	14.3665	5.8000e-004	1.2000e-004	14.4166
Gasoline/Service Station	18770.6	6.1344	2.5000e-004	5.0000e-005	6.1558
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2660	0.8693	3.0000e-005	1.0000e-005	0.8723
Total		21.3702	8.6000e-004	1.8000e-004	21.4448

Deer Springs Mega Mart Project - San Diego Air Basin, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	43960	14.3665	5.8000e-004	1.2000e-004	14.4166
Gasoline/Service Station	18770.6	6.1344	2.5000e-004	5.0000e-005	6.1558
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2660	0.8693	3.0000e-005	1.0000e-005	0.8723
Total		21.3702	8.6000e-004	1.8000e-004	21.4448

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0301	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0700e-003
Unmitigated	0.0318	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0700e-003

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	7.5600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0241					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0700e-003
Total	0.0318	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0700e-003

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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	7.5600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0700e-003
Total	0.0301	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0700e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.7871	0.0155	3.8000e-004	3.2888
Unmitigated	3.2071	0.0155	3.9000e-004	3.7102

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.259254 / 0.158898	1.7624	8.5200e-003	2.1000e-004	2.0389
Gasoline/Service Station	0.21251 / 0.130248	1.4446	6.9800e-003	1.7000e-004	1.6713
Other 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		3.2070	0.0155	3.8000e-004	3.7102

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.259254 / 0.0953385	1.5316	8.5100e-003	2.1000e-004	1.8073
Gasoline/Service Station	0.21251 / 0.0781489	1.2555	6.9700e-003	1.7000e-004	1.4815
Other 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		2.7871	0.0155	3.8000e-004	3.2888

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.8853	0.2296	0.0000	9.6255
Unmitigated	3.8853	0.2296	0.0000	9.6255

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market With Gas Pumps	10.52	2.1355	0.1262	0.0000	5.2905
Gasoline/Service Station	8.62	1.7498	0.1034	0.0000	4.3350
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.8852	0.2296	0.0000	9.6255

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market With Gas Pumps	10.52	2.1355	0.1262	0.0000	5.2905
Gasoline/Service Station	8.62	1.7498	0.1034	0.0000	4.3350
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.8852	0.2296	0.0000	9.6255

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Deer Springs Mega Mart Project - San Diego Air Basin, Annual

Equipment Type	Number
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11.0 Vegetation

Project - Summer Emissions

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

Deer Springs Mega Mart Project

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.88	1000sqft	0.41	17,879.00	0
Parking Lot	19.00	Space	0.17	7,600.00	0
Convenience Market With Gas Pumps	3.50	1000sqft	0.08	3,500.00	0
Gasoline/Service Station	16.00	Pump	0.05	2,258.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

Project Characteristics - Model updated based on site plan dated 3/22/2019.

Land Use - Land Use - Total new imperv 17,879SF as "Other Asphalt Surfaces" (total proposed imperv 31,238SF minus parking lot, gas pumps, and building footprint); "Proposed Perv" (38,707SF) not included in analysis. LU total = 0.71 acre, which reflects imperv surface development and project area actively use during project operations.

Construction Phase - Per client info 3/22/2019

Grading - Per client info 4/17/2019; confirmed 8/8/2019

Demolition - Per client info

Trips and VMT - Haul trips adjusted per client info re: grading/import and export

Vehicle Trips - Per project traffic study, adjusted per pump

Energy Use -

Water Mitigation - County of SD - 40% outdoor water reduction to meet MAWA per CAP Checklist

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblGrading	AcresOfGrading	0.00	1.30
tblGrading	AcresOfGrading	0.50	1.30
tblGrading	MaterialExported	0.00	532.00
tblGrading	MaterialImported	0.00	4,691.00
tblLandUse	LandUseSquareFeet	17,880.00	17,879.00
tblTripsAndVMT	HaulingTripNumber	67.00	54.00
tblTripsAndVMT	HaulingTripNumber	586.00	480.00
tblVehicleTrips	ST_TR	1,448.33	40.00
tblVehicleTrips	ST_TR	168.56	104.50
tblVehicleTrips	SU_TR	1,182.08	40.00
tblVehicleTrips	SU_TR	168.56	104.50
tblVehicleTrips	WD_TR	845.60	40.00
tblVehicleTrips	WD_TR	168.56	104.50

2.0 Emissions Summary

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	31.6288	117.1807	46.9048	0.2840	6.5309	2.0635	8.5944	1.5586	1.9400	3.4985	0.0000	30,438.0565	30,438.0565	3.3737	0.0000	30,522.3993
Maximum	31.6288	117.1807	46.9048	0.2840	6.5309	2.0635	8.5944	1.5586	1.9400	3.4985	0.0000	30,438.0565	30,438.0565	3.3737	0.0000	30,522.3993

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	31.6288	117.1807	46.9048	0.2840	4.1232	2.0635	6.1866	1.0785	1.9400	3.0185	0.0000	30,438.0565	30,438.0565	3.3737	0.0000	30,522.3993
Maximum	31.6288	117.1807	46.9048	0.2840	4.1232	2.0635	6.1866	1.0785	1.9400	3.0185	0.0000	30,438.0565	30,438.0565	3.3737	0.0000	30,522.3993

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	36.87	0.00	28.02	30.80	0.00	13.72	0.00	0.00	0.00	0.00	0.00	0.00

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1742	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Energy	1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970
Mobile	2.1443	6.9646	13.2783	0.0320	2.2020	0.0300	2.2320	0.5885	0.0280	0.6165		3,262.1766	3,262.1766	0.2344		3,268.0359
Total	2.3195	6.9738	13.2917	0.0320	2.2020	0.0307	2.2327	0.5885	0.0287	0.6172		3,273.1210	3,273.1210	0.2346	2.0000e-004	3,279.0461

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	0.1650	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Energy	1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970
Mobile	2.1602	7.0564	13.6467	0.0335	2.3330	0.0311	2.3641	0.6235	0.0290	0.6526		3,411.4843	3,411.4843	0.2410		3,417.5095
Total	2.3262	7.0656	13.6602	0.0335	2.3330	0.0319	2.3648	0.6235	0.0297	0.6533		3,422.4287	3,422.4287	0.2412	2.0000e-004	3,428.5196

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	-0.29	-1.32	-2.77	-4.62	-5.95	-3.71	-5.92	-5.95	-3.70	-5.85	0.00	-4.56	-4.56	-2.83	0.00	-4.56

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/20/2020	5	10	
2	Site Preparation	Site Preparation	1/15/2020	2/14/2020	5	1	
3	Grading	Grading	1/16/2020	2/4/2020	5	2	
4	Building Construction	Building Construction	1/18/2020	4/10/2020	5	100	
5	Paving	Paving	6/6/2020	7/6/2020	5	5	
6	Architectural Coating	Architectural Coating	6/13/2020	7/2/2020	5	5	

Acres of Grading (Site Preparation Phase): 1.3

Acres of Grading (Grading Phase): 1.3

Acres of Paving: 0.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,638; Non-Residential Outdoor: 2,879; Striped Parking Area: 1,529 (Architectural Coating – sqft)

OffRoad Equipment

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	53.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	54.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	480.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	13.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1526	0.0000	1.1526	0.1746	0.0000	0.1746			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	1.1526	0.4672	1.6198	0.1746	0.4457	0.6202		1,147.2352	1,147.2352	0.2169		1,152.6578

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.2 Demolition - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0419	1.4785	0.3357	4.1500e-003	0.0726	4.7200e-003	0.0773	0.0205	4.5100e-003	0.0250		453.8531	453.8531	0.0400		454.8526
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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
Total	0.0786	1.5032	0.6192	5.0000e-003	0.1547	5.3000e-003	0.1600	0.0423	5.0400e-003	0.0473		538.1278	538.1278	0.0425		539.1902

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5187	0.0000	0.5187	0.0786	0.0000	0.0786			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.5187	0.4672	0.9859	0.0786	0.4457	0.5242	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.2 Demolition - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0419	1.4785	0.3357	4.1500e-003	0.0726	4.7200e-003	0.0773	0.0205	4.5100e-003	0.0250		453.8531	453.8531	0.0400		454.8526
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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
Total	0.0786	1.5032	0.6192	5.0000e-003	0.1547	5.3000e-003	0.1600	0.0423	5.0400e-003	0.0473		538.1278	538.1278	0.0425		539.1902

3.3 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4534	0.0000	1.4534	0.1602	0.0000	0.1602			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	1.4534	0.3353	1.7888	0.1602	0.3085	0.4687		943.4872	943.4872	0.3051		951.1158

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.3 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4268	15.0641	3.4203	0.0423	0.2607	0.0481	0.3087	0.0910	0.0460	0.1370		4,624.1640	4,624.1640	0.4073		4,634.3470
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	0.0184	0.0124	0.1417	4.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.1374	42.1374	1.2600e-003		42.1688
Total	0.4452	15.0765	3.5620	0.0427	0.3018	0.0484	0.3501	0.1019	0.0463	0.1481		4,666.3013	4,666.3013	0.4086		4,676.5159

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6540	0.0000	0.6540	0.0721	0.0000	0.0721			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.6540	0.3353	0.9894	0.0721	0.3085	0.3806	0.0000	943.4872	943.4872	0.3051		951.1158

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.3 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4268	15.0641	3.4203	0.0423	0.2607	0.0481	0.3087	0.0910	0.0460	0.1370		4,624.1640	4,624.1640	0.4073		4,634.3470
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	0.0184	0.0124	0.1417	4.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.1374	42.1374	1.2600e-003		42.1688
Total	0.4452	15.0765	3.5620	0.0427	0.3018	0.0484	0.3501	0.1019	0.0463	0.1481		4,666.3013	4,666.3013	0.4086		4,676.5159

3.4 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7717	0.0000	1.7717	0.5381	0.0000	0.5381			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	1.7717	0.4672	2.2389	0.5381	0.4457	0.9838		1,147.2352	1,147.2352	0.2169		1,152.6578

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.4 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8970	66.9517	15.2013	0.1879	1.4739	0.2136	1.6875	0.4817	0.2044	0.6861		20,551.8398	20,551.8398	1.8103		20,597.0980
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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
Total	1.9337	66.9764	15.4847	0.1888	1.5561	0.2142	1.7703	0.5035	0.2049	0.7084		20,636.1145	20,636.1145	1.8129		20,681.4356

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7973	0.0000	0.7973	0.2422	0.0000	0.2422			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7973	0.4672	1.2645	0.2422	0.4457	0.6878	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.4 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8970	66.9517	15.2013	0.1879	1.4739	0.2136	1.6875	0.4817	0.2044	0.6861		20,551.8398	20,551.8398	1.8103		20,597.0980
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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
Total	1.9337	66.9764	15.4847	0.1888	1.5561	0.2142	1.7703	0.5035	0.2049	0.7084		20,636.1145	20,636.1145	1.8129		20,681.4356

3.5 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.5 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0187	0.5638	0.1436	1.3700e-003	0.0339	2.7600e-003	0.0366	9.7400e-003	2.6400e-003	0.0124		147.0200	147.0200	0.0109		147.2912
Worker	0.0477	0.0321	0.3685	1.1000e-003	0.1068	7.5000e-004	0.1075	0.0283	6.9000e-004	0.0290		109.5571	109.5571	3.2700e-003		109.6389
Total	0.0664	0.5959	0.5121	2.4700e-003	0.1406	3.5100e-003	0.1442	0.0381	3.3300e-003	0.0414		256.5772	256.5772	0.0141		256.9301

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.5 Building Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0187	0.5638	0.1436	1.3700e-003	0.0339	2.7600e-003	0.0366	9.7400e-003	2.6400e-003	0.0124		147.0200	147.0200	0.0109		147.2912
Worker	0.0477	0.0321	0.3685	1.1000e-003	0.1068	7.5000e-004	0.1075	0.0283	6.9000e-004	0.0290		109.5571	109.5571	3.2700e-003		109.6389
Total	0.0664	0.5959	0.5121	2.4700e-003	0.1406	3.5100e-003	0.1442	0.0381	3.3300e-003	0.0414		256.5772	256.5772	0.0141		256.9301

3.6 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0755	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.6 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0755	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.6 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

3.7 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.2341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	30.4763	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.7 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0110	7.4200e-003	0.0850	2.5000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003		25.2824	25.2824	7.5000e-004		25.3013
Total	0.0110	7.4200e-003	0.0850	2.5000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003		25.2824	25.2824	7.5000e-004		25.3013

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	30.2341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	30.4763	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

3.7 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0110	7.4200e-003	0.0850	2.5000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003		25.2824	25.2824	7.5000e-004		25.3013
Total	0.0110	7.4200e-003	0.0850	2.5000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003		25.2824	25.2824	7.5000e-004		25.3013

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1602	7.0564	13.6467	0.0335	2.3330	0.0311	2.3641	0.6235	0.0290	0.6526		3,411.4843	3,411.4843	0.2410		3,417.5095
Unmitigated	2.1443	6.9646	13.2783	0.0320	2.2020	0.0300	2.2320	0.5885	0.0280	0.6165		3,262.1766	3,262.1766	0.2344		3,268.0359

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	140.00	140.00	140.00	75,097	79,565
Gasoline/Service Station	1,672.00	1,672.00	1,672.00	963,353	1,020,673
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,812.00	1,812.00	1,812.00	1,038,450	1,100,238

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
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Gasoline/Service Station	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Parking Lot	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970
NaturalGas Unmitigated	1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

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					
Convenience Market With Gas Pumps	21.3836	2.3000e-004	2.1000e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.5157	2.5157	5.0000e-005	5.0000e-005	2.5307
Gasoline/Service Station	71.539	7.7000e-004	7.0100e-003	5.8900e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.4164	8.4164	1.6000e-004	1.5000e-004	8.4664
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
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		1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

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					
Convenience Market With Gas Pumps	0.0213836	2.3000e-004	2.1000e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.5157	2.5157	5.0000e-005	5.0000e-005	2.5307
Gasoline/Service Station	0.071539	7.7000e-004	7.0100e-003	5.8900e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.4164	8.4164	1.6000e-004	1.5000e-004	8.4664
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
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		1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1650	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Unmitigated	0.1742	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132

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	0.0414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4000e-004	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Total	0.1742	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132

Deer Springs Mega Mart Project - San Diego Air Basin, Summer

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	0.0414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4000e-004	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Total	0.1650	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Deer Springs Mega Mart Project - San Diego Air Basin, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Project - Winter Emissions

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

Deer Springs Mega Mart Project

San Diego Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.88	1000sqft	0.41	17,879.00	0
Parking Lot	19.00	Space	0.17	7,600.00	0
Convenience Market With Gas Pumps	3.50	1000sqft	0.08	3,500.00	0
Gasoline/Service Station	16.00	Pump	0.05	2,258.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

Project Characteristics - Model updated based on site plan dated 3/22/2019.

Land Use - Land Use - Total new imperv 17,879SF as "Other Asphalt Surfaces" (total proposed imperv 31,238SF minus parking lot, gas pumps, and building footprint); "Proposed Perv" (38,707SF) not included in analysis. LU total = 0.71 acre, which reflects imperv surface development and project area actively use during project operations.

Construction Phase - Per client info 3/22/2019

Grading - Per client info 4/17/2019; confirmed 8/8/2019

Demolition - Per client info

Trips and VMT - Haul trips adjusted per client info re: grading/import and export

Vehicle Trips - Per project traffic study, adjusted per pump

Energy Use -

Water Mitigation - County of SD - 40% outdoor water reduction to meet MAWA per CAP Checklist

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblGrading	AcresOfGrading	0.00	1.30
tblGrading	AcresOfGrading	0.50	1.30
tblGrading	MaterialExported	0.00	532.00
tblGrading	MaterialImported	0.00	4,691.00
tblLandUse	LandUseSquareFeet	17,880.00	17,879.00
tblTripsAndVMT	HaulingTripNumber	67.00	54.00
tblTripsAndVMT	HaulingTripNumber	586.00	480.00
tblVehicleTrips	ST_TR	1,448.33	40.00
tblVehicleTrips	ST_TR	168.56	104.50
tblVehicleTrips	SU_TR	1,182.08	40.00
tblVehicleTrips	SU_TR	168.56	104.50
tblVehicleTrips	WD_TR	845.60	40.00
tblVehicleTrips	WD_TR	168.56	104.50

2.0 Emissions Summary

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	31.6390	117.9947	48.1113	0.2797	6.5309	2.0691	8.6000	1.5586	1.9453	3.5039	0.0000	29,974.945 2	29,974.945 2	3.4512	0.0000	30,061.225 1
Maximum	31.6390	117.9947	48.1113	0.2797	6.5309	2.0691	8.6000	1.5586	1.9453	3.5039	0.0000	29,974.945 2	29,974.945 2	3.4512	0.0000	30,061.225 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	31.6390	117.9947	48.1113	0.2797	4.1232	2.0691	6.1922	1.0785	1.9453	3.0238	0.0000	29,974.945 2	29,974.945 2	3.4512	0.0000	30,061.225 1
Maximum	31.6390	117.9947	48.1113	0.2797	4.1232	2.0691	6.1922	1.0785	1.9453	3.0238	0.0000	29,974.945 2	29,974.945 2	3.4512	0.0000	30,061.225 1

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	36.87	0.00	28.00	30.80	0.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1742	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Energy	1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970
Mobile	2.0725	6.9692	14.7186	0.0302	2.2020	0.0307	2.2327	0.5885	0.0287	0.6172		3,073.7354	3,073.7354	0.2497		3,079.9772
Total	2.2478	6.9784	14.7320	0.0302	2.2020	0.0315	2.2334	0.5885	0.0294	0.6179		3,084.6798	3,084.6798	0.2499	2.0000e-004	3,090.9874

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	0.1650	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Energy	1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970
Mobile	2.0881	7.0667	15.0550	0.0316	2.3330	0.0319	2.3649	0.6235	0.0297	0.6533		3,215.6463	3,215.6463	0.2561		3,222.0489
Total	2.2541	7.0759	15.0684	0.0316	2.3330	0.0326	2.3656	0.6235	0.0305	0.6540		3,226.5907	3,226.5907	0.2563	2.0000e-004	3,233.0591

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	-0.28	-1.40	-2.28	-4.63	-5.95	-3.62	-5.92	-5.95	-3.61	-5.84	0.00	-4.60	-4.60	-2.57	0.00	-4.60

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/20/2020	5	10	
2	Site Preparation	Site Preparation	1/15/2020	2/14/2020	5	1	
3	Grading	Grading	1/16/2020	2/4/2020	5	2	
4	Building Construction	Building Construction	1/18/2020	4/10/2020	5	100	
5	Paving	Paving	6/6/2020	7/6/2020	5	5	
6	Architectural Coating	Architectural Coating	6/13/2020	7/2/2020	5	5	

Acres of Grading (Site Preparation Phase): 1.3

Acres of Grading (Grading Phase): 1.3

Acres of Paving: 0.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,638; Non-Residential Outdoor: 2,879; Striped Parking Area: 1,529 (Architectural Coating – sqft)

OffRoad Equipment

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	53.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	54.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	480.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	13.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1526	0.0000	1.1526	0.1746	0.0000	0.1746			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	1.1526	0.4672	1.6198	0.1746	0.4457	0.6202		1,147.2352	1,147.2352	0.2169		1,152.6578

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.2 Demolition - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0431	1.4927	0.3579	4.0800e-003	0.0726	4.8200e-003	0.0774	0.0205	4.6100e-003	0.0251		446.0668	446.0668	0.0414		447.1005
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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
Total	0.0846	1.5205	0.6251	4.8700e-003	0.1547	5.4000e-003	0.1601	0.0423	5.1400e-003	0.0474		525.1800	525.1800	0.0437		526.2732

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5187	0.0000	0.5187	0.0786	0.0000	0.0786			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.5187	0.4672	0.9859	0.0786	0.4457	0.5242	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.2 Demolition - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0431	1.4927	0.3579	4.0800e-003	0.0726	4.8200e-003	0.0774	0.0205	4.6100e-003	0.0251		446.0668	446.0668	0.0414		447.1005
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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
Total	0.0846	1.5205	0.6251	4.8700e-003	0.1547	5.4000e-003	0.1601	0.0423	5.1400e-003	0.0474		525.1800	525.1800	0.0437		526.2732

3.3 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4534	0.0000	1.4534	0.1602	0.0000	0.1602			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	1.4534	0.3353	1.7888	0.1602	0.3085	0.4687		943.4872	943.4872	0.3051		951.1158

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.3 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4387	15.2090	3.6463	0.0416	0.2607	0.0491	0.3097	0.0910	0.0469	0.1379		4,544.8313	4,544.8313	0.4213		4,555.3631
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	0.0208	0.0139	0.1336	4.0000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		39.5566	39.5566	1.1900e-003		39.5864
Total	0.4594	15.2229	3.7799	0.0420	0.3018	0.0494	0.3511	0.1019	0.0472	0.1491		4,584.3879	4,584.3879	0.4225		4,594.9495

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6540	0.0000	0.6540	0.0721	0.0000	0.0721			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.6540	0.3353	0.9894	0.0721	0.3085	0.3806	0.0000	943.4872	943.4872	0.3051		951.1158

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.3 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4387	15.2090	3.6463	0.0416	0.2607	0.0491	0.3097	0.0910	0.0469	0.1379		4,544.8313	4,544.8313	0.4213		4,555.3631
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	0.0208	0.0139	0.1336	4.0000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		39.5566	39.5566	1.1900e-003		39.5864
Total	0.4594	15.2229	3.7799	0.0420	0.3018	0.0494	0.3511	0.1019	0.0472	0.1491		4,584.3879	4,584.3879	0.4225		4,594.9495

3.4 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7717	0.0000	1.7717	0.5381	0.0000	0.5381			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	1.7717	0.4672	2.2389	0.5381	0.4457	0.9838		1,147.2352	1,147.2352	0.2169		1,152.6578

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.4 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9496	67.5954	16.2055	0.1847	1.4739	0.2181	1.6920	0.4817	0.2086	0.6903		20,199.2502	20,199.2502	1.8723		20,246.0584
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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
Total	1.9911	67.6232	16.4728	0.1855	1.5561	0.2186	1.7747	0.5035	0.2092	0.7127		20,278.3634	20,278.3634	1.8747		20,325.2311

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7973	0.0000	0.7973	0.2422	0.0000	0.2422			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7973	0.4672	1.2645	0.2422	0.4457	0.6878	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.4 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9496	67.5954	16.2055	0.1847	1.4739	0.2181	1.6920	0.4817	0.2086	0.6903		20,199.2502	20,199.2502	1.8723		20,246.0584
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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
Total	1.9911	67.6232	16.4728	0.1855	1.5561	0.2186	1.7747	0.5035	0.2092	0.7127		20,278.3634	20,278.3634	1.8747		20,325.2311

3.5 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.5 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0196	0.5633	0.1594	1.3300e-003	0.0339	2.8100e-003	0.0367	9.7400e-003	2.6900e-003	0.0124		143.2311	143.2311	0.0115		143.5192
Worker	0.0540	0.0361	0.3474	1.0300e-003	0.1068	7.5000e-004	0.1075	0.0283	6.9000e-004	0.0290		102.8472	102.8472	3.1000e-003		102.9246
Total	0.0736	0.5994	0.5068	2.3600e-003	0.1406	3.5600e-003	0.1442	0.0381	3.3800e-003	0.0415		246.0783	246.0783	0.0146		246.4438

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.5 Building Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0196	0.5633	0.1594	1.3300e-003	0.0339	2.8100e-003	0.0367	9.7400e-003	2.6900e-003	0.0124		143.2311	143.2311	0.0115		143.5192
Worker	0.0540	0.0361	0.3474	1.0300e-003	0.1068	7.5000e-004	0.1075	0.0283	6.9000e-004	0.0290		102.8472	102.8472	3.1000e-003		102.9246
Total	0.0736	0.5994	0.5068	2.3600e-003	0.1406	3.5600e-003	0.1442	0.0381	3.3800e-003	0.0415		246.0783	246.0783	0.0146		246.4438

3.6 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0755	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.6 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
Total	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0755	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.6 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
Total	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109

3.7 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.2341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	30.4763	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.7 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0125	8.3300e-003	0.0802	2.4000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003		23.7340	23.7340	7.1000e-004		23.7518
Total	0.0125	8.3300e-003	0.0802	2.4000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003		23.7340	23.7340	7.1000e-004		23.7518

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	30.2341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	30.4763	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

3.7 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0125	8.3300e-003	0.0802	2.4000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003		23.7340	23.7340	7.1000e-004		23.7518
Total	0.0125	8.3300e-003	0.0802	2.4000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003		23.7340	23.7340	7.1000e-004		23.7518

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0881	7.0667	15.0550	0.0316	2.3330	0.0319	2.3649	0.6235	0.0297	0.6533		3,215.6463	3,215.6463	0.2561		3,222.0489
Unmitigated	2.0725	6.9692	14.7186	0.0302	2.2020	0.0307	2.2327	0.5885	0.0287	0.6172		3,073.7354	3,073.7354	0.2497		3,079.9772

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	140.00	140.00	140.00	75,097	79,565
Gasoline/Service Station	1,672.00	1,672.00	1,672.00	963,353	1,020,673
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,812.00	1,812.00	1,812.00	1,038,450	1,100,238

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
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Gasoline/Service Station	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Parking Lot	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970
NaturalGas Unmitigated	1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

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					
Convenience Market With Gas Pumps	21.3836	2.3000e-004	2.1000e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.5157	2.5157	5.0000e-005	5.0000e-005	2.5307
Gasoline/Service Station	71.539	7.7000e-004	7.0100e-003	5.8900e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.4164	8.4164	1.6000e-004	1.5000e-004	8.4664
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
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		1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

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					
Convenience Market With Gas Pumps	0.0213836	2.3000e-004	2.1000e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.5157	2.5157	5.0000e-005	5.0000e-005	2.5307
Gasoline/Service Station	0.071539	7.7000e-004	7.0100e-003	5.8900e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.4164	8.4164	1.6000e-004	1.5000e-004	8.4664
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
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		1.0000e-003	9.1100e-003	7.6500e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9321	10.9321	2.1000e-004	2.0000e-004	10.9970

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1650	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Unmitigated	0.1742	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132

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	0.0414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4000e-004	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Total	0.1742	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132

Deer Springs Mega Mart Project - San Diego Air Basin, Winter

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	0.0414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4000e-004	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132
Total	0.1650	5.0000e-005	5.7800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0132

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Deer Springs Mega Mart Project - San Diego Air Basin, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

MegaMart

Annual VMT*: 1,100,238

From CalEEMod 2016 Vehicle Fleet Mix Output:

Vehicle Type	Percent Type	CH4		N2O	
		CH4 Emission Factor (g/mile)**	Emission (g/mile)***	Emission Factor (g/mile)**	N2O Emission (g/mile)***
Light Auto	59.4%	0.04	0.02376	0.04	0.02376
Light Truck < 3750 lbs	4.2%	0.05	0.0021	0.06	0.00252
Light Truck 3751-5750 lbs	18.3%	0.05	0.00915	0.06	0.01098
Med Truck 5751-8500 lbs	10.8%	0.12	0.01296	0.2	0.0216
Lite-Heavy Truck 8501-10,000 lbs	1.6%	0.12	0.00192	0.2	0.0032
Lite-Heavy Truck 10,001-14,000 lbs	0.6%	0.09	0.000495	0.125	0.000688
Med-Heavy Truck 14,001-33,000 lbs	1.6%	0.06	0.00093	0.05	0.000775
Heavy-Heavy Truck 33,001-60,000 lbs	2.4%	0.06	0.00144	0.05	0.0012
Other Bus	0.2%	0.06	0.000114	0.05	0.000095
Urban Bus	0.2%	0.06	0.00012	0.05	0.0001
Motorcycle	0.6%	0.09	0.000549	0.01	0.000061
School Bus	0.1%	0.06	0.000042	0.05	0.000035
Motor Home	0.1%	0.09	0.000108	0.125	0.00015
Total	100.0%		0.053688		0.065164

Total Emissions (metric tons) =
Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)***
CH4 25 GWP
N2O 298 GWP
1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

Total Emissions		Total CO2e units	
N2O Emissions:	0.0717 metric tons N2O	21.37	metric tons CO2e
Project Total:		21.37	metric tons CO2e

References

* From CalEEMod 2016 results for mobile sources
** Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).
in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
Assume Model year 2000-present, gasoline fueled.
*** California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
**** Global warming potentials from IPCC Fourth Assessment Report

Greenhouse Gas Emission Worksheet
Construction Emissions

MegaMart

Annual Mobile Emissions:

References
CalEEMod Output

Project Total:	257 metric tons CO2e
Amortarized (30 years)	8.57

Operation

Construction (Annual)

Mobile

Total

Appendix A2

CalEEMod Air Quality Report – Proposed Project with CalEEMod Default Trips (Annual)

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	33.00	1000sqft	0.76	32,996.00	0
Parking Lot	19.00	Space	0.17	7,600.00	0
Convenience Market With Gas Pumps	3.50	1000sqft	0.08	3,500.00	0
Gasoline/Service Station	16.00	Pump	0.05	2,258.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Project Characteristics -

Land Use - Per client info: Total new impervious surface 32,996 SF as "Other Asphalt Surfaces"

Construction Phase - Per client info

Demolition - Per client info. Buildings and concrete

Grading - Per client info

Vehicle Trips - Trip gens are CalEEMod default

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	1.50	1.22
tblGrading	AcresOfGrading	1.00	1.22
tblGrading	MaterialExported	0.00	965.00
tblGrading	MaterialImported	0.00	9,106.00
tblLandUse	LandUseSquareFeet	33,000.00	32,996.00

2.0 Emissions Summary

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2881	1.7910	1.0314	3.1000e-003	0.1220	0.0666	0.1885	0.0545	0.0631	0.1176	0.0000	286.6205	286.6205	0.0436	0.0000	287.7103
Maximum	0.2881	1.7910	1.0314	3.1000e-003	0.1220	0.0666	0.1885	0.0545	0.0631	0.1176	0.0000	286.6205	286.6205	0.0436	0.0000	287.7103

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2881	1.7910	1.0314	3.1000e-003	0.0696	0.0666	0.1362	0.0288	0.0631	0.0919	0.0000	286.6204	286.6204	0.0436	0.0000	287.7102
Maximum	0.2881	1.7910	1.0314	3.1000e-003	0.0696	0.0666	0.1362	0.0288	0.0631	0.0919	0.0000	286.6204	286.6204	0.0436	0.0000	287.7102

	ROG	NOx	CO	SO2	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	42.92	0.00	27.77	47.16	0.00	21.85	0.00	0.00	0.00	0.00	0.00	0.00

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2019	8-31-2019	1.2412	1.2412
2	9-1-2019	9-30-2019	0.2079	0.2079
		Highest	1.2412	1.2412

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	0.0333	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2800e-003	1.2800e-003	0.0000	0.0000	1.3600e-003
Energy	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	23.1802	23.1802	8.9000e-004	2.1000e-004	23.2655
Mobile	1.3195	4.5000	9.2690	0.0189	1.2789	0.0213	1.3002	0.3425	0.0199	0.3624	0.0000	1,742.8450	1,742.8450	0.1405	0.0000	1,746.3565
Waste						0.0000	0.0000		0.0000	0.0000	3.8853	0.0000	3.8853	0.2296	0.0000	9.6255
Water						0.0000	0.0000		0.0000	0.0000	0.1497	3.0574	3.2071	0.0155	3.9000e-004	3.7102
Total	1.3529	4.5017	9.2711	0.0189	1.2789	0.0214	1.3003	0.3425	0.0200	0.3625	4.0349	1,769.0839	1,773.1188	0.3865	6.0000e-004	1,782.9590

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

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	0.0333	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2800e-003	1.2800e-003	0.0000	0.0000	1.3600e-003
Energy	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	23.1802	23.1802	8.9000e-004	2.1000e-004	23.2655
Mobile	1.3295	4.5654	9.4847	0.0197	1.3550	0.0221	1.3771	0.3629	0.0207	0.3836	0.0000	1,822.3338	1,822.3338	0.1441	0.0000	1,825.9370
Waste						0.0000	0.0000		0.0000	0.0000	3.8853	0.0000	3.8853	0.2296	0.0000	9.6255
Water						0.0000	0.0000		0.0000	0.0000	0.1312	2.8093	2.9404	0.0136	3.4000e-004	3.3818
Total	1.3630	4.5671	9.4867	0.0198	1.3550	0.0222	1.3772	0.3629	0.0208	0.3837	4.0164	1,848.3245	1,852.3409	0.3882	5.5000e-004	1,862.2111

	ROG	NOx	CO	SO2	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	-0.74	-1.45	-2.33	-4.55	-5.95	-3.93	-5.92	-5.95	-3.95	-5.84	0.46	-4.48	-4.47	-0.46	8.33	-4.44

3.0 Construction Detail**Construction Phase**

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2019	6/14/2019	5	20	
2	Site Preparation	Site Preparation	6/15/2019	7/13/2019	5	2	
3	Grading	Grading	7/14/2019	7/31/2019	5	4	
4	Building Construction	Building Construction	8/1/2019	11/15/2019	5	200	
5	Paving	Paving	11/16/2019	12/27/2019	5	10	
6	Architectural Coating	Architectural Coating	12/1/2019	12/20/2019	5	10	

Acres of Grading (Site Preparation Phase): 1.22

Acres of Grading (Grading Phase): 1.22

Acres of Paving: 0.93

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,638; Non-Residential Outdoor: 2,879; Striped Parking Area: 2,436 (Architectural Coating – sqft)

OffRoad Equipment

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	41.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,138.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2700e-003	0.0000	2.2700e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.1134	0.0745	1.2000e-004		6.4300e-003	6.4300e-003		6.0100e-003	6.0100e-003	0.0000	10.7080	10.7080	2.7300e-003	0.0000	10.7762
Total	0.0115	0.1134	0.0745	1.2000e-004	2.2700e-003	6.4300e-003	8.7000e-003	3.4000e-004	6.0100e-003	6.3500e-003	0.0000	10.7080	10.7080	2.7300e-003	0.0000	10.7762

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3.2 Demolition - 2019**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	9.0000e-005	3.1400e-003	6.9000e-004	1.0000e-005	3.1000e-004	1.0000e-005	3.2000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7991	0.7991	7.0000e-005	0.0000	0.8009
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	2.6000e-004	2.0000e-004	1.9000e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4865	0.4865	2.0000e-005	0.0000	0.4869
Total	3.5000e-004	3.3400e-003	2.5900e-003	2.0000e-005	8.3000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	1.2856	1.2856	9.0000e-005	0.0000	1.2878

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0200e-003	0.0000	1.0200e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.1134	0.0745	1.2000e-004		6.4300e-003	6.4300e-003		6.0100e-003	6.0100e-003	0.0000	10.7080	10.7080	2.7300e-003	0.0000	10.7762
Total	0.0115	0.1134	0.0745	1.2000e-004	1.0200e-003	6.4300e-003	7.4500e-003	1.5000e-004	6.0100e-003	6.1600e-003	0.0000	10.7080	10.7080	2.7300e-003	0.0000	10.7762

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3.2 Demolition - 2019**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	9.0000e-005	3.1400e-003	6.9000e-004	1.0000e-005	3.1000e-004	1.0000e-005	3.2000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7991	0.7991	7.0000e-005	0.0000	0.8009
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	2.6000e-004	2.0000e-004	1.9000e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4865	0.4865	2.0000e-005	0.0000	0.4869
Total	3.5000e-004	3.3400e-003	2.5900e-003	2.0000e-005	8.3000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	1.2856	1.2856	9.0000e-005	0.0000	1.2878

3.3 Site Preparation - 2019**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					0.0592	0.0000	0.0592	0.0297	0.0000	0.0297	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1948	0.0789	1.7000e-004		8.8200e-003	8.8200e-003		8.1200e-003	8.1200e-003	0.0000	15.4668	15.4668	4.8900e-003	0.0000	15.5891
Total	0.0171	0.1948	0.0789	1.7000e-004	0.0592	8.8200e-003	0.0680	0.0297	8.1200e-003	0.0378	0.0000	15.4668	15.4668	4.8900e-003	0.0000	15.5891

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3.3 Site Preparation - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.4000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5988	0.5988	2.0000e-005	0.0000	0.5993
Total	3.2000e-004	2.4000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5988	0.5988	2.0000e-005	0.0000	0.5993

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					0.0266	0.0000	0.0266	0.0134	0.0000	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1948	0.0789	1.7000e-004		8.8200e-003	8.8200e-003		8.1200e-003	8.1200e-003	0.0000	15.4668	15.4668	4.8900e-003	0.0000	15.5891
Total	0.0171	0.1948	0.0789	1.7000e-004	0.0266	8.8200e-003	0.0354	0.0134	8.1200e-003	0.0215	0.0000	15.4668	15.4668	4.8900e-003	0.0000	15.5891

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3.3 Site Preparation - 2019**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	3.2000e-004	2.4000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5988	0.5988	2.0000e-005	0.0000	0.5993
Total	3.2000e-004	2.4000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5988	0.5988	2.0000e-005	0.0000	0.5993

3.4 Grading - 2019**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					0.0338	0.0000	0.0338	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2300e-003	0.1042	0.0429	9.0000e-005		4.7900e-003	4.7900e-003		4.4000e-003	4.4000e-003	0.0000	8.2341	8.2341	2.6100e-003	0.0000	8.2992
Total	9.2300e-003	0.1042	0.0429	9.0000e-005	0.0338	4.7900e-003	0.0386	0.0167	4.4000e-003	0.0211	0.0000	8.2341	8.2341	2.6100e-003	0.0000	8.2992

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3.4 Grading - 2019**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	0.0162	0.5667	0.1236	1.4600e-003	0.0152	2.1200e-003	0.0173	4.6500e-003	2.0300e-003	6.6800e-003	0.0000	144.1665	144.1665	0.0131	0.0000	144.4928
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	2.1000e-004	1.6000e-004	1.5200e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3892	0.3892	1.0000e-005	0.0000	0.3895
Total	0.0165	0.5669	0.1252	1.4600e-003	0.0156	2.1200e-003	0.0177	4.7600e-003	2.0300e-003	6.7900e-003	0.0000	144.5557	144.5557	0.0131	0.0000	144.8824

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					0.0152	0.0000	0.0152	7.5200e-003	0.0000	7.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2300e-003	0.1042	0.0429	9.0000e-005		4.7900e-003	4.7900e-003		4.4000e-003	4.4000e-003	0.0000	8.2341	8.2341	2.6100e-003	0.0000	8.2992
Total	9.2300e-003	0.1042	0.0429	9.0000e-005	0.0152	4.7900e-003	0.0200	7.5200e-003	4.4000e-003	0.0119	0.0000	8.2341	8.2341	2.6100e-003	0.0000	8.2992

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3.4 Grading - 2019**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	0.0162	0.5667	0.1236	1.4600e-003	0.0152	2.1200e-003	0.0173	4.6500e-003	2.0300e-003	6.6800e-003	0.0000	144.1665	144.1665	0.0131	0.0000	144.4928
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	2.1000e-004	1.6000e-004	1.5200e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3892	0.3892	1.0000e-005	0.0000	0.3895
Total	0.0165	0.5669	0.1252	1.4600e-003	0.0156	2.1200e-003	0.0177	4.7600e-003	2.0300e-003	6.7900e-003	0.0000	144.5557	144.5557	0.0131	0.0000	144.8824

3.5 Building Construction - 2019**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	0.0875	0.6152	0.5193	8.5000e-004		0.0353	0.0353		0.0341	0.0341	0.0000	70.4827	70.4827	0.0136	0.0000	70.8214
Total	0.0875	0.6152	0.5193	8.5000e-004		0.0353	0.0353		0.0341	0.0341	0.0000	70.4827	70.4827	0.0136	0.0000	70.8214

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3.5 Building Construction - 2019**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	1.4400e-003	0.0387	0.0104	8.0000e-005	2.0400e-003	2.7000e-004	2.3100e-003	5.9000e-004	2.6000e-004	8.5000e-004	0.0000	8.1829	8.1829	6.6000e-004	0.0000	8.1993
Worker	2.8800e-003	2.2100e-003	0.0214	6.0000e-005	5.8700e-003	4.0000e-005	5.9100e-003	1.5600e-003	4.0000e-005	1.6000e-003	0.0000	5.4753	5.4753	1.8000e-004	0.0000	5.4797
Total	4.3200e-003	0.0409	0.0318	1.4000e-004	7.9100e-003	3.1000e-004	8.2200e-003	2.1500e-003	3.0000e-004	2.4500e-003	0.0000	13.6581	13.6581	8.4000e-004	0.0000	13.6790

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	0.0875	0.6152	0.5193	8.5000e-004		0.0353	0.0353		0.0341	0.0341	0.0000	70.4826	70.4826	0.0136	0.0000	70.8213
Total	0.0875	0.6152	0.5193	8.5000e-004		0.0353	0.0353		0.0341	0.0341	0.0000	70.4826	70.4826	0.0136	0.0000	70.8213

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3.5 Building Construction - 2019**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	1.4400e-003	0.0387	0.0104	8.0000e-005	2.0400e-003	2.7000e-004	2.3100e-003	5.9000e-004	2.6000e-004	8.5000e-004	0.0000	8.1829	8.1829	6.6000e-004	0.0000	8.1993
Worker	2.8800e-003	2.2100e-003	0.0214	6.0000e-005	5.8700e-003	4.0000e-005	5.9100e-003	1.5600e-003	4.0000e-005	1.6000e-003	0.0000	5.4753	5.4753	1.8000e-004	0.0000	5.4797
Total	4.3200e-003	0.0409	0.0318	1.4000e-004	7.9100e-003	3.1000e-004	8.2200e-003	2.1500e-003	3.0000e-004	2.4500e-003	0.0000	13.6581	13.6581	8.4000e-004	0.0000	13.6790

3.6 Paving - 2019**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	0.0136	0.1376	0.1335	2.0000e-004		7.8400e-003	7.8400e-003		7.2200e-003	7.2200e-003	0.0000	18.0316	18.0316	5.6000e-003	0.0000	18.1715
Paving	3.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0172	0.1376	0.1335	2.0000e-004		7.8400e-003	7.8400e-003		7.2200e-003	7.2200e-003	0.0000	18.0316	18.0316	5.6000e-003	0.0000	18.1715

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3.6 Paving - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.9000e-004	5.7100e-003	2.0000e-005	1.5600e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4596	1.4596	5.0000e-005	0.0000	1.4607
Total	7.7000e-004	5.9000e-004	5.7100e-003	2.0000e-005	1.5600e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4596	1.4596	5.0000e-005	0.0000	1.4607

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	0.0136	0.1376	0.1335	2.0000e-004		7.8400e-003	7.8400e-003		7.2200e-003	7.2200e-003	0.0000	18.0316	18.0316	5.6000e-003	0.0000	18.1715
Paving	3.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0172	0.1376	0.1335	2.0000e-004		7.8400e-003	7.8400e-003		7.2200e-003	7.2200e-003	0.0000	18.0316	18.0316	5.6000e-003	0.0000	18.1715

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3.6 Paving - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.9000e-004	5.7100e-003	2.0000e-005	1.5600e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4596	1.4596	5.0000e-005	0.0000	1.4607
Total	7.7000e-004	5.9000e-004	5.7100e-003	2.0000e-005	1.5600e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4596	1.4596	5.0000e-005	0.0000	1.4607

3.7 Architectural Coating - 2019**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	0.1213					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-003	0.0138	0.0138	2.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	1.9149	1.9149	1.6000e-004	0.0000	1.9190
Total	0.1233	0.0138	0.0138	2.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	1.9149	1.9149	1.6000e-004	0.0000	1.9190

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3.7 Architectural Coating - 2019**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	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.2246	0.2246	1.0000e-005	0.0000	0.2247
Total	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.2246	0.2246	1.0000e-005	0.0000	0.2247

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	0.1213					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-003	0.0138	0.0138	2.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	1.9149	1.9149	1.6000e-004	0.0000	1.9190
Total	0.1233	0.0138	0.0138	2.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	1.9149	1.9149	1.6000e-004	0.0000	1.9190

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

3.7 Architectural Coating - 2019**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	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.2246	0.2246	1.0000e-005	0.0000	0.2247
Total	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.2246	0.2246	1.0000e-005	0.0000	0.2247

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3295	4.5654	9.4847	0.0197	1.3550	0.0221	1.3771	0.3629	0.0207	0.3836	0.0000	1,822.3338	1,822.3338	0.1441	0.0000	1,825.9370
Unmitigated	1.3195	4.5000	9.2690	0.0189	1.2789	0.0213	1.3002	0.3425	0.0199	0.3624	0.0000	1,742.8450	1,742.8450	0.1405	0.0000	1,746.3565

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	2,959.60	5,069.16	4137.28	1,839,440	1,948,887
Gasoline/Service Station	2,696.96	2,696.96	2696.96	1,553,903	1,646,360
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	5,656.56	7,766.12	6,834.24	3,393,343	3,595,247

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
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Gasoline/Service Station	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Other Asphalt Surfaces	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Parking Lot	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21.3702	21.3702	8.6000e-004	1.8000e-004	21.4448
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21.3702	21.3702	8.6000e-004	1.8000e-004	21.4448
Natural Gas Mitigated	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8099	1.8099	3.0000e-005	3.0000e-005	1.8207
Natural Gas Unmitigated	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8099	1.8099	3.0000e-005	3.0000e-005	1.8207

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

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					
Convenience Market With Gas Pumps	7805	4.0000e-005	3.8000e-004	3.2000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4165	0.4165	1.0000e-005	1.0000e-005	0.4190
Gasoline/Service Station	26111.7	1.4000e-004	1.2800e-003	1.0800e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.3934	1.3934	3.0000e-005	3.0000e-005	1.4017
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
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		1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8099	1.8099	4.0000e-005	4.0000e-005	1.8207

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

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					
Convenience Market With Gas Pumps	7805	4.0000e-005	3.8000e-004	3.2000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4165	0.4165	1.0000e-005	1.0000e-005	0.4190
Gasoline/Service Station	26111.7	1.4000e-004	1.2800e-003	1.0800e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.3934	1.3934	3.0000e-005	3.0000e-005	1.4017
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
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		1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8099	1.8099	4.0000e-005	4.0000e-005	1.8207

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	43960	14.3665	5.8000e- 004	1.2000e- 004	14.4166
Gasoline/Service Station	18770.6	6.1344	2.5000e- 004	5.0000e- 005	6.1558
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2660	0.8693	3.0000e- 005	1.0000e- 005	0.8723
Total		21.3702	8.6000e- 004	1.8000e- 004	21.4448

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	43960	14.3665	5.8000e- 004	1.2000e- 004	14.4166
Gasoline/Service Station	18770.6	6.1344	2.5000e- 004	5.0000e- 005	6.1558
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2660	0.8693	3.0000e- 005	1.0000e- 005	0.8723
Total		21.3702	8.6000e- 004	1.8000e- 004	21.4448

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.0333	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2800e-003	1.2800e-003	0.0000	0.0000	1.3600e-003
Unmitigated	0.0333	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2800e-003	1.2800e-003	0.0000	0.0000	1.3600e-003

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	8.0800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0251					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2800e-003	1.2800e-003	0.0000	0.0000	1.3600e-003
Total	0.0333	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2800e-003	1.2800e-003	0.0000	0.0000	1.3600e-003

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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	8.0800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0251					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2800e-003	1.2800e-003	0.0000	0.0000	1.3600e-003
Total	0.0333	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2800e-003	1.2800e-003	0.0000	0.0000	1.3600e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.9404	0.0136	3.4000e-004	3.3818
Unmitigated	3.2071	0.0155	3.9000e-004	3.7102

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.259254 / 0.158898	1.7624	8.5200e-003	2.1000e-004	2.0389
Gasoline/Service Station	0.21251 / 0.130248	1.4446	6.9800e-003	1.7000e-004	1.6713
Other 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		3.2070	0.0155	3.8000e-004	3.7102

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.22721 / 0.158898	1.6159	7.4700e-003	1.9000e-004	1.8585
Gasoline/Service Station	0.186244 / 0.130248	1.3245	6.1200e-003	1.5000e-004	1.5234
Other 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		2.9404	0.0136	3.4000e-004	3.3818

8.0 Waste Detail

8.1 Mitigation Measures Waste

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.8853	0.2296	0.0000	9.6255
Unmitigated	3.8853	0.2296	0.0000	9.6255

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market With Gas Pumps	10.52	2.1355	0.1262	0.0000	5.2905
Gasoline/Service Station	8.62	1.7498	0.1034	0.0000	4.3350
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.8852	0.2296	0.0000	9.6255

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market With Gas Pumps	10.52	2.1355	0.1262	0.0000	5.2905
Gasoline/Service Station	8.62	1.7498	0.1034	0.0000	4.3350
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.8852	0.2296	0.0000	9.6255

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Deer Springs Mega Mart Project - With CalEEModDefault Trip Gen - San Diego Air Basin, Annual

Equipment Type	Number
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11.0 Vegetation

Appendix A3

SCAQMD Gas and Diesel Throughput Calculations

SCAQMD Annual Emissions reporting Program (pg 11)

Underground Gasoline Tanks 6.14 lb/gal

VOC EF = 1.005 lb / 1000 gallons

Benzene 0.01005 lb / 1000 gallons

Naphthalene 0.001407 lb / 1000 gallons

Diesel 7.37 lb/gal

VOC EF = 0.028 lb / 1000 gallons

Project Annual Throughput:			Project Daily Throughput:		365
3350000 gallons	3350 1,000 gallons	3366.750 lbs/yr	9.223973 lbs/day		
	TAC	33.668 lbs/yr	0.09224 lbs/day		
	TAC	4.713 lbs/yr	0.012914 lbs/day		
250000 gallons	3350 1,000 gallons	93.800 lbs/yr	0.256986 lbs/day		
		3460.550	9.481		
	2000	1.730275 tons/yr			