

Valley Center 7+, M - San Diego County, Winter

3.4 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 7+, M - San Diego County, Winter

3.5 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0722	0.0430	0.4346	1.5800e-003	0.1916	1.2000e-003	0.1928	0.0508	1.1000e-003	0.0519		157.1480	157.1480	3.7700e-003		157.2423
Total	0.0722	0.0430	0.4346	1.5800e-003	0.1916	1.2000e-003	0.1928	0.0508	1.1000e-003	0.0519		157.1480	157.1480	3.7700e-003		157.2423

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3.5 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0722	0.0430	0.4346	1.5800e-003	0.1916	1.2000e-003	0.1928	0.0508	1.1000e-003	0.0519		157.1480	157.1480	3.7700e-003		157.2423
Total	0.0722	0.0430	0.4346	1.5800e-003	0.1916	1.2000e-003	0.1928	0.0508	1.1000e-003	0.0519		157.1480	157.1480	3.7700e-003		157.2423

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3.5 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0692	0.0397	0.4058	1.5100e-003	0.1916	1.1800e-003	0.1928	0.0508	1.0800e-003	0.0519		150.7923	150.7923	3.4800e-003		150.8794
Total	0.0692	0.0397	0.4058	1.5100e-003	0.1916	1.1800e-003	0.1928	0.0508	1.0800e-003	0.0519		150.7923	150.7923	3.4800e-003		150.8794

Valley Center 7+, M - San Diego County, Winter

3.5 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0692	0.0397	0.4058	1.5100e-003	0.1916	1.1800e-003	0.1928	0.0508	1.0800e-003	0.0519		150.7923	150.7923	3.4800e-003		150.8794
Total	0.0692	0.0397	0.4058	1.5100e-003	0.1916	1.1800e-003	0.1928	0.0508	1.0800e-003	0.0519		150.7923	150.7923	3.4800e-003		150.8794

Valley Center 7+, M - San Diego County, Winter

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

Valley Center 7+, M - San Diego County, Winter

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

4.0 Operational Detail - Mobile

Valley Center 7+, M - San Diego County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4358	12.9698	32.8992	0.1630	20.6781	0.0595	20.7376	5.5265	0.0554	5.5820		16,802.0670	16,802.0670	0.7753		16,821.4506
Unmitigated	2.4358	12.9698	32.8992	0.1630	20.6781	0.0595	20.7376	5.5265	0.0554	5.5820		16,802.0670	16,802.0670	0.7753		16,821.4506

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,530.00	2,633.73	2289.65	9,290,445	9,290,445
Total	2,530.00	2,633.73	2,289.65	9,290,445	9,290,445

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 7+, M - San Diego County, Winter

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	0.2775	2.3716	1.0092	0.0151		0.1917	0.1917		0.1917	0.1917		3,027.5517	3,027.5517	0.0580	0.0555	3,045.5429
NaturalGas Unmitigated	0.2775	2.3716	1.0092	0.0151		0.1917	0.1917		0.1917	0.1917		3,027.5517	3,027.5517	0.0580	0.0555	3,045.5429

Valley Center 7+, M - San Diego County, 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					
Single Family Housing	25734.2	0.2775	2.3716	1.0092	0.0151		0.1917	0.1917		0.1917	0.1917		3,027.5517	3,027.5517	0.0580	0.0555	3,045.5429
Total		0.2775	2.3716	1.0092	0.0151		0.1917	0.1917		0.1917	0.1917		3,027.5517	3,027.5517	0.0580	0.0555	3,045.5429

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					
Single Family Housing	25.7342	0.2775	2.3716	1.0092	0.0151		0.1917	0.1917		0.1917	0.1917		3,027.5517	3,027.5517	0.0580	0.0555	3,045.5429
Total		0.2775	2.3716	1.0092	0.0151		0.1917	0.1917		0.1917	0.1917		3,027.5517	3,027.5517	0.0580	0.0555	3,045.5429

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 7+, M - San Diego County, 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	11.6389	4.4367	22.5670	0.0279		0.4551	0.4551		0.4551	0.4551	0.0000	5,395.2308	5,395.2308	0.1385	0.0982	5,427.9630
Unmitigated	11.6389	4.4367	22.5670	0.0279		0.4551	0.4551		0.4551	0.4551	0.0000	5,395.2308	5,395.2308	0.1385	0.0982	5,427.9630

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	0.7807					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.7456					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4911	4.1968	1.7859	0.0268		0.3393	0.3393		0.3393	0.3393	0.0000	5,357.6471	5,357.6471	0.1027	0.0982	5,389.4849
Landscaping	0.6216	0.2399	20.7811	1.1000e-003		0.1158	0.1158		0.1158	0.1158		37.5837	37.5837	0.0358		38.4781
Total	11.6389	4.4367	22.5670	0.0279		0.4551	0.4551		0.4551	0.4551	0.0000	5,395.2308	5,395.2308	0.1385	0.0982	5,427.9630

Valley Center 7+, M - San Diego County, 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	0.7807					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.7456					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4911	4.1968	1.7859	0.0268		0.3393	0.3393		0.3393	0.3393	0.0000	5,357.6471	5,357.6471	0.1027	0.0982	5,389.4849
Landscaping	0.6216	0.2399	20.7811	1.1000e-003		0.1158	0.1158		0.1158	0.1158		37.5837	37.5837	0.0358		38.4781
Total	11.6389	4.4367	22.5670	0.0279		0.4551	0.4551		0.4551	0.4551	0.0000	5,395.2308	5,395.2308	0.1385	0.0982	5,427.9630

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 7+, M - San Diego County, Winter

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

Valley Center 51, UM - San Diego County, Summer

Valley Center 51, UM
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	13.00	Dwelling Unit	4.22	23,400.00	37

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Valley Center 51, UM - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	1/24/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	12/5/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/17/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	12/31/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/5/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	1/18/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/6/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	12/6/2018
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	10.41
tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00

2.0 Emissions Summary

Valley Center 51, UM - San Diego County, 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	20.4680	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Mobile	0.1278	0.6545	1.7514	8.8000e-003	1.0625	3.0500e-003	1.0656	0.2840	2.8400e-003	0.2868		905.8226	905.8226	0.0397		906.8162
Total	20.6100	1.1772	27.4294	0.0541	1.0625	3.4622	4.5247	0.2840	3.4620	3.7459	361.0325	1,214.7314	1,575.7639	0.3777	0.0313	1,594.5198

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	20.4680	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Mobile	0.1278	0.6545	1.7514	8.8000e-003	1.0625	3.0500e-003	1.0656	0.2840	2.8400e-003	0.2868		905.8226	905.8226	0.0397		906.8162
Total	20.6100	1.1772	27.4294	0.0541	1.0625	3.4622	4.5247	0.2840	3.4620	3.7459	361.0325	1,214.7314	1,575.7639	0.3777	0.0313	1,594.5198

Valley Center 51, UM - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2019	1/24/2019	5	18	
2	Building Construction	Building Construction	1/18/2018	12/5/2018	5	230	
3	Grading	Grading	1/6/2018	1/17/2018	5	8	
4	Paving	Paving	12/6/2018	12/31/2018	5	18	
5	Site Preparation	Site Preparation	1/1/2018	1/5/2018	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 47,385; Residential Outdoor: 15,795; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 51, UM - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Valley Center 51, UM - San Diego County, Summer

3.1 Mitigation Measures Construction

3.2 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	lb/day										lb/day					
Archit. Coating	8.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	8.4009	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	5.4400e-003	4.0700e-003	0.0455	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		13.4045	13.4045	4.2000e-004		13.4149
Total	5.4400e-003	4.0700e-003	0.0455	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		13.4045	13.4045	4.2000e-004		13.4149

Valley Center 51, UM - San Diego County, Summer

3.2 Architectural Coating - 2019

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	8.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	8.4009	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	5.4400e-003	4.0700e-003	0.0455	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		13.4045	13.4045	4.2000e-004		13.4149
Total	5.4400e-003	4.0700e-003	0.0455	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		13.4045	13.4045	4.2000e-004		13.4149

Valley Center 51, UM - San Diego County, Summer

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	4.8300e-003	0.1254	0.0332	2.6000e-004	6.1200e-003	9.4000e-004	7.0600e-003	1.7600e-003	9.0000e-004	2.6600e-003		27.5451	27.5451	2.2500e-003		27.6015
Worker	0.0294	0.0227	0.2516	6.9000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.1000e-004	0.0173		69.1059	69.1059	2.3000e-003		69.1634
Total	0.0343	0.1482	0.2848	9.5000e-004	0.0700	1.3800e-003	0.0714	0.0187	1.3100e-003	0.0200		96.6510	96.6510	4.5500e-003		96.7649

Valley Center 51, UM - San Diego County, Summer

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1254	0.0332	2.6000e-004	6.1200e-003	9.4000e-004	7.0600e-003	1.7600e-003	9.0000e-004	2.6600e-003		27.5451	27.5451	2.2500e-003		27.6015
Worker	0.0294	0.0227	0.2516	6.9000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.1000e-004	0.0173		69.1059	69.1059	2.3000e-003		69.1634
Total	0.0343	0.1482	0.2848	9.5000e-004	0.0700	1.3800e-003	0.0714	0.0187	1.3100e-003	0.0200		96.6510	96.6510	4.5500e-003		96.7649

Valley Center 51, UM - San Diego County, Summer

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947		2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902
Total	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902

Valley Center 51, UM - San Diego County, Summer

3.4 Grading - 2018

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902
Total	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902

Valley Center 51, UM - San Diego County, Summer

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312

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	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536
Total	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536

Valley Center 51, UM - San Diego County, Summer

3.5 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312

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	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536
Total	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536

Valley Center 51, UM - San Diego County, Summer

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

Valley Center 51, UM - San Diego County, Summer

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

4.0 Operational Detail - Mobile

Valley Center 51, UM - San Diego County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1278	0.6545	1.7514	8.8000e-003	1.0625	3.0500e-003	1.0656	0.2840	2.8400e-003	0.2868		905.8226	905.8226	0.0397		906.8162
Unmitigated	0.1278	0.6545	1.7514	8.8000e-003	1.0625	3.0500e-003	1.0656	0.2840	2.8400e-003	0.2868		905.8226	905.8226	0.0397		906.8162

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	130.00	135.33	117.65	477,375	477,375
Total	130.00	135.33	117.65	477,375	477,375

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 51, UM - San Diego County, Summer

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	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
NaturalGas Unmitigated	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

Valley Center 51, UM - San Diego County, 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					
Single Family Housing	1322.31	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

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					
Single Family Housing	1.32231	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 51, UM - San Diego County, 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	20.4680	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133
Unmitigated	20.4680	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133

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	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	19.8951	0.3885	24.5584	0.0445		3.4433	3.4433		3.4433	3.4433	361.0325	151.4118	512.4443	0.3332	0.0284	529.2362
Landscaping	0.0319	0.0123	1.0678	6.0000e-005		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003		1.9312	1.9312	1.8400e-003		1.9771
Total	20.4679	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133

Valley Center 51, UM - San Diego County, 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	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	19.8951	0.3885	24.5584	0.0445		3.4433	3.4433		3.4433	3.4433	361.0325	151.4118	512.4443	0.3332	0.0284	529.2362
Landscaping	0.0319	0.0123	1.0678	6.0000e-005		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003		1.9312	1.9312	1.8400e-003		1.9771
Total	20.4679	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 51, UM - San Diego County, Summer

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

Valley Center 51, M - San Diego County, Summer

Valley Center 51, M
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	13.00	Dwelling Unit	4.22	23,400.00	37

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

Valley Center 51, M - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	1/24/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	12/5/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/17/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	12/31/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/5/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	1/18/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/6/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	12/6/2018
tblFireplaces	NumberGas	7.15	13.00
tblFireplaces	NumberNoFireplace	1.30	0.00
tblFireplaces	NumberWood	4.55	0.00
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	10.41

Valley Center 51, M - San Diego County, Summer

tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00
tblWoodstoves	NumberCatalytic	0.65	0.00
tblWoodstoves	NumberNoncatalytic	0.65	0.00

2.0 Emissions Summary

Valley Center 51, M - San Diego County, 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	0.5981	0.2280	1.1596	1.4300e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1100e-003	5.0500e-003	278.9072
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Mobile	0.1278	0.6545	1.7514	8.8000e-003	1.0625	3.0500e-003	1.0656	0.2840	2.8400e-003	0.2868		905.8226	905.8226	0.0397		906.8162
Total	0.7401	1.0043	2.9628	0.0110	1.0625	0.0363	1.0988	0.2840	0.0361	0.3201	0.0000	1,338.6138	1,338.6138	0.0498	7.9000e-003	1,342.2137

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	0.5981	0.2280	1.1596	1.4300e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1100e-003	5.0500e-003	278.9072
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Mobile	0.1278	0.6545	1.7514	8.8000e-003	1.0625	3.0500e-003	1.0656	0.2840	2.8400e-003	0.2868		905.8226	905.8226	0.0397		906.8162
Total	0.7401	1.0043	2.9628	0.0110	1.0625	0.0363	1.0988	0.2840	0.0361	0.3201	0.0000	1,338.6138	1,338.6138	0.0498	7.9000e-003	1,342.2137

Valley Center 51, M - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2019	1/24/2019	5	18	
2	Building Construction	Building Construction	1/18/2018	12/5/2018	5	230	
3	Grading	Grading	1/6/2018	1/17/2018	5	8	
4	Paving	Paving	12/6/2018	12/31/2018	5	18	
5	Site Preparation	Site Preparation	1/1/2018	1/5/2018	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 47,385; Residential Outdoor: 15,795; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 51, M - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Valley Center 51, M - San Diego County, Summer

3.1 Mitigation Measures Construction

3.2 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	lb/day										lb/day					
Archit. Coating	8.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	8.4009	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	5.4400e-003	4.0700e-003	0.0455	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		13.4045	13.4045	4.2000e-004		13.4149
Total	5.4400e-003	4.0700e-003	0.0455	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		13.4045	13.4045	4.2000e-004		13.4149

Valley Center 51, M - San Diego County, Summer

3.2 Architectural Coating - 2019

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	8.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	8.4009	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	5.4400e-003	4.0700e-003	0.0455	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		13.4045	13.4045	4.2000e-004		13.4149
Total	5.4400e-003	4.0700e-003	0.0455	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		13.4045	13.4045	4.2000e-004		13.4149

Valley Center 51, M - San Diego County, Summer

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	4.8300e-003	0.1254	0.0332	2.6000e-004	6.1200e-003	9.4000e-004	7.0600e-003	1.7600e-003	9.0000e-004	2.6600e-003		27.5451	27.5451	2.2500e-003		27.6015
Worker	0.0294	0.0227	0.2516	6.9000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.1000e-004	0.0173		69.1059	69.1059	2.3000e-003		69.1634
Total	0.0343	0.1482	0.2848	9.5000e-004	0.0700	1.3800e-003	0.0714	0.0187	1.3100e-003	0.0200		96.6510	96.6510	4.5500e-003		96.7649

Valley Center 51, M - San Diego County, Summer

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1254	0.0332	2.6000e-004	6.1200e-003	9.4000e-004	7.0600e-003	1.7600e-003	9.0000e-004	2.6600e-003		27.5451	27.5451	2.2500e-003		27.6015
Worker	0.0294	0.0227	0.2516	6.9000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.1000e-004	0.0173		69.1059	69.1059	2.3000e-003		69.1634
Total	0.0343	0.1482	0.2848	9.5000e-004	0.0700	1.3800e-003	0.0714	0.0187	1.3100e-003	0.0200		96.6510	96.6510	4.5500e-003		96.7649

Valley Center 51, M - San Diego County, Summer

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947		2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902
Total	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902

Valley Center 51, M - San Diego County, Summer

3.4 Grading - 2018

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902
Total	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902

Valley Center 51, M - San Diego County, Summer

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312

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	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536
Total	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536

Valley Center 51, M - San Diego County, Summer

3.5 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312

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	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536
Total	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536

Valley Center 51, M - San Diego County, Summer

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

Valley Center 51, M - San Diego County, Summer

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

4.0 Operational Detail - Mobile

Valley Center 51, M - San Diego County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1278	0.6545	1.7514	8.8000e-003	1.0625	3.0500e-003	1.0656	0.2840	2.8400e-003	0.2868		905.8226	905.8226	0.0397		906.8162
Unmitigated	0.1278	0.6545	1.7514	8.8000e-003	1.0625	3.0500e-003	1.0656	0.2840	2.8400e-003	0.2868		905.8226	905.8226	0.0397		906.8162

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	130.00	135.33	117.65	477,375	477,375
Total	130.00	135.33	117.65	477,375	477,375

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 51, M - San Diego County, Summer

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	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
NaturalGas Unmitigated	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

Valley Center 51, M - San Diego County, 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					
Single Family Housing	1322.31	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

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					
Single Family Housing	1.32231	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 51, M - San Diego County, 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	0.5981	0.2280	1.1596	1.4300e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1100e-003	5.0500e-003	278.9072
Unmitigated	0.5981	0.2280	1.1596	1.4300e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1100e-003	5.0500e-003	278.9072

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	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0252	0.2157	0.0918	1.3800e-003		0.0174	0.0174		0.0174	0.0174	0.0000	275.2941	275.2941	5.2800e-003	5.0500e-003	276.9301
Landscaping	0.0319	0.0123	1.0678	6.0000e-005		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003		1.9312	1.9312	1.8400e-003		1.9771
Total	0.5981	0.2280	1.1596	1.4400e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1200e-003	5.0500e-003	278.9072

Valley Center 51, M - San Diego County, 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	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0252	0.2157	0.0918	1.3800e-003		0.0174	0.0174		0.0174	0.0174	0.0000	275.2941	275.2941	5.2800e-003	5.0500e-003	276.9301
Landscaping	0.0319	0.0123	1.0678	6.0000e-005		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003		1.9312	1.9312	1.8400e-003		1.9771
Total	0.5981	0.2280	1.1596	1.4400e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1200e-003	5.0500e-003	278.9072

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 51, M - San Diego County, Summer

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

Valley Center 51, UM - San Diego County, Winter

**Valley Center 51, UM
San Diego County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	13.00	Dwelling Unit	4.22	23,400.00	37

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Valley Center 51, UM - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	1/24/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	12/5/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/17/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	12/31/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/5/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	1/18/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/6/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	12/6/2018
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	10.41
tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00

2.0 Emissions Summary

Valley Center 51, UM - San Diego County, 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	20.4680	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Mobile	0.1252	0.6664	1.6905	8.3800e-003	1.0625	3.0600e-003	1.0656	0.2840	2.8500e-003	0.2868		863.3473	863.3473	0.0398		864.3433
Total	20.6074	1.1891	27.3685	0.0537	1.0625	3.4622	4.5247	0.2840	3.4620	3.7459	361.0325	1,172.2562	1,533.2887	0.3778	0.0313	1,552.0470

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	20.4680	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Mobile	0.1252	0.6664	1.6905	8.3800e-003	1.0625	3.0600e-003	1.0656	0.2840	2.8500e-003	0.2868		863.3473	863.3473	0.0398		864.3433
Total	20.6074	1.1891	27.3685	0.0537	1.0625	3.4622	4.5247	0.2840	3.4620	3.7459	361.0325	1,172.2562	1,533.2887	0.3778	0.0313	1,552.0470

Valley Center 51, UM - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2019	1/24/2019	5	18	
2	Building Construction	Building Construction	1/18/2018	12/5/2018	5	230	
3	Grading	Grading	1/6/2018	1/17/2018	5	8	
4	Paving	Paving	12/6/2018	12/31/2018	5	18	
5	Site Preparation	Site Preparation	1/1/2018	1/5/2018	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 47,385; Residential Outdoor: 15,795; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 51, UM - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Valley Center 51, UM - San Diego County, Winter

3.1 Mitigation Measures Construction

3.2 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	lb/day										lb/day					
Archit. Coating	8.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	8.4009	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	6.2900e-003	4.5700e-003	0.0421	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		12.5783	12.5783	3.9000e-004		12.5881
Total	6.2900e-003	4.5700e-003	0.0421	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		12.5783	12.5783	3.9000e-004		12.5881

Valley Center 51, UM - San Diego County, Winter

3.2 Architectural Coating - 2019

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	8.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	8.4009	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	6.2900e-003	4.5700e-003	0.0421	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		12.5783	12.5783	3.9000e-004		12.5881
Total	6.2900e-003	4.5700e-003	0.0421	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		12.5783	12.5783	3.9000e-004		12.5881

Valley Center 51, UM - San Diego County, Winter

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	5.0500e-003	0.1254	0.0369	2.5000e-004	6.1200e-003	9.5000e-004	7.0800e-003	1.7600e-003	9.1000e-004	2.6800e-003		26.7959	26.7959	2.4100e-003		26.8561
Worker	0.0340	0.0255	0.2338	6.5000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.1000e-004	0.0173		64.8501	64.8501	2.1700e-003		64.9042
Total	0.0391	0.1510	0.2708	9.0000e-004	0.0700	1.3900e-003	0.0714	0.0187	1.3200e-003	0.0200		91.6460	91.6460	4.5800e-003		91.7603

Valley Center 51, UM - San Diego County, Winter

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0500e-003	0.1254	0.0369	2.5000e-004	6.1200e-003	9.5000e-004	7.0800e-003	1.7600e-003	9.1000e-004	2.6800e-003		26.7959	26.7959	2.4100e-003		26.8561
Worker	0.0340	0.0255	0.2338	6.5000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.1000e-004	0.0173		64.8501	64.8501	2.1700e-003		64.9042
Total	0.0391	0.1510	0.2708	9.0000e-004	0.0700	1.3900e-003	0.0714	0.0187	1.3200e-003	0.0200		91.6460	91.6460	4.5800e-003		91.7603

Valley Center 51, UM - San Diego County, Winter

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947		2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127
Total	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127

Valley Center 51, UM - San Diego County, Winter

3.4 Grading - 2018

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127
Total	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127

Valley Center 51, UM - San Diego County, Winter

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 51, UM - San Diego County, Winter

3.5 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 51, UM - San Diego County, Winter

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

Valley Center 51, UM - San Diego County, Winter

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

4.0 Operational Detail - Mobile

Valley Center 51, UM - San Diego County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1252	0.6664	1.6905	8.3800e-003	1.0625	3.0600e-003	1.0656	0.2840	2.8500e-003	0.2868		863.3473	863.3473	0.0398		864.3433
Unmitigated	0.1252	0.6664	1.6905	8.3800e-003	1.0625	3.0600e-003	1.0656	0.2840	2.8500e-003	0.2868		863.3473	863.3473	0.0398		864.3433

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	130.00	135.33	117.65	477,375	477,375
Total	130.00	135.33	117.65	477,375	477,375

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 51, UM - San Diego County, Winter

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	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
NaturalGas Unmitigated	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

Valley Center 51, UM - San Diego County, 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					
Single Family Housing	1322.31	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

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					
Single Family Housing	1.32231	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 51, UM - San Diego County, 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	20.4680	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133
Unmitigated	20.4680	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133

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	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	19.8951	0.3885	24.5584	0.0445		3.4433	3.4433		3.4433	3.4433	361.0325	151.4118	512.4443	0.3332	0.0284	529.2362
Landscaping	0.0319	0.0123	1.0678	6.0000e-005		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003		1.9312	1.9312	1.8400e-003		1.9771
Total	20.4679	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133

Valley Center 51, UM - San Diego County, 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	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	19.8951	0.3885	24.5584	0.0445		3.4433	3.4433		3.4433	3.4433	361.0325	151.4118	512.4443	0.3332	0.0284	529.2362
Landscaping	0.0319	0.0123	1.0678	6.0000e-005		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003		1.9312	1.9312	1.8400e-003		1.9771
Total	20.4679	0.4009	25.6262	0.0446		3.4493	3.4493		3.4493	3.4493	361.0325	153.3429	514.3754	0.3350	0.0284	531.2133

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 51, UM - San Diego County, Winter

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

Valley Center 51, M - San Diego County, Winter

Valley Center 51, M
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	13.00	Dwelling Unit	4.22	23,400.00	37

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

- Project Characteristics -
- Land Use -
- Construction Phase -
- Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)
- Vehicle Trips - Using SANDAG Weekday rate
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)
- Woodstoves - Mitigation of 100% NG

Valley Center 51, M - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	1/24/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	12/5/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/17/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	12/31/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/5/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	1/18/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/6/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	12/6/2018
tblFireplaces	NumberGas	7.15	13.00
tblFireplaces	NumberNoFireplace	1.30	0.00
tblFireplaces	NumberWood	4.55	0.00
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	10.41

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tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00
tblWoodstoves	NumberCatalytic	0.65	0.00
tblWoodstoves	NumberNoncatalytic	0.65	0.00

2.0 Emissions Summary

Valley Center 51, M - San Diego County, 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	0.5981	0.2280	1.1596	1.4300e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1100e-003	5.0500e-003	278.9072
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Mobile	0.1252	0.6664	1.6905	8.3800e-003	1.0625	3.0600e-003	1.0656	0.2840	2.8500e-003	0.2868		863.3473	863.3473	0.0398		864.3433
Total	0.7375	1.0163	2.9019	0.0106	1.0625	0.0363	1.0988	0.2840	0.0361	0.3201	0.0000	1,296.1385	1,296.1385	0.0499	7.9000e-003	1,299.7409

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	0.5981	0.2280	1.1596	1.4300e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1100e-003	5.0500e-003	278.9072
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Mobile	0.1252	0.6664	1.6905	8.3800e-003	1.0625	3.0600e-003	1.0656	0.2840	2.8500e-003	0.2868		863.3473	863.3473	0.0398		864.3433
Total	0.7375	1.0163	2.9019	0.0106	1.0625	0.0363	1.0988	0.2840	0.0361	0.3201	0.0000	1,296.1385	1,296.1385	0.0499	7.9000e-003	1,299.7409

Valley Center 51, M - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2019	1/24/2019	5	18	
2	Building Construction	Building Construction	1/18/2018	12/5/2018	5	230	
3	Grading	Grading	1/6/2018	1/17/2018	5	8	
4	Paving	Paving	12/6/2018	12/31/2018	5	18	
5	Site Preparation	Site Preparation	1/1/2018	1/5/2018	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 47,385; Residential Outdoor: 15,795; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 51, M - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Valley Center 51, M - San Diego County, Winter

3.1 Mitigation Measures Construction

3.2 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	lb/day										lb/day					
Archit. Coating	8.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	8.4009	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	6.2900e-003	4.5700e-003	0.0421	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		12.5783	12.5783	3.9000e-004		12.5881
Total	6.2900e-003	4.5700e-003	0.0421	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		12.5783	12.5783	3.9000e-004		12.5881

Valley Center 51, M - San Diego County, Winter

3.2 Architectural Coating - 2019

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	8.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	8.4009	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	6.2900e-003	4.5700e-003	0.0421	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		12.5783	12.5783	3.9000e-004		12.5881
Total	6.2900e-003	4.5700e-003	0.0421	1.3000e-004	0.0128	9.0000e-005	0.0129	3.3900e-003	8.0000e-005	3.4700e-003		12.5783	12.5783	3.9000e-004		12.5881

Valley Center 51, M - San Diego County, Winter

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	5.0500e-003	0.1254	0.0369	2.5000e-004	6.1200e-003	9.5000e-004	7.0800e-003	1.7600e-003	9.1000e-004	2.6800e-003		26.7959	26.7959	2.4100e-003		26.8561
Worker	0.0340	0.0255	0.2338	6.5000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.1000e-004	0.0173		64.8501	64.8501	2.1700e-003		64.9042
Total	0.0391	0.1510	0.2708	9.0000e-004	0.0700	1.3900e-003	0.0714	0.0187	1.3200e-003	0.0200		91.6460	91.6460	4.5800e-003		91.7603

Valley Center 51, M - San Diego County, Winter

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0500e-003	0.1254	0.0369	2.5000e-004	6.1200e-003	9.5000e-004	7.0800e-003	1.7600e-003	9.1000e-004	2.6800e-003		26.7959	26.7959	2.4100e-003		26.8561
Worker	0.0340	0.0255	0.2338	6.5000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.1000e-004	0.0173		64.8501	64.8501	2.1700e-003		64.9042
Total	0.0391	0.1510	0.2708	9.0000e-004	0.0700	1.3900e-003	0.0714	0.0187	1.3200e-003	0.0200		91.6460	91.6460	4.5800e-003		91.7603

Valley Center 51, M - San Diego County, Winter

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947		2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127
Total	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127

Valley Center 51, M - San Diego County, Winter

3.4 Grading - 2018

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127
Total	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127

Valley Center 51, M - San Diego County, Winter

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 51, M - San Diego County, Winter

3.5 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 51, M - San Diego County, Winter

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

Valley Center 51, M - San Diego County, Winter

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

4.0 Operational Detail - Mobile

Valley Center 51, M - San Diego County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1252	0.6664	1.6905	8.3800e-003	1.0625	3.0600e-003	1.0656	0.2840	2.8500e-003	0.2868		863.3473	863.3473	0.0398		864.3433
Unmitigated	0.1252	0.6664	1.6905	8.3800e-003	1.0625	3.0600e-003	1.0656	0.2840	2.8500e-003	0.2868		863.3473	863.3473	0.0398		864.3433

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	130.00	135.33	117.65	477,375	477,375
Total	130.00	135.33	117.65	477,375	477,375

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 51, M - San Diego County, Winter

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	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
NaturalGas Unmitigated	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

Valley Center 51, M - San Diego County, 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					
Single Family Housing	1322.31	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

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					
Single Family Housing	1.32231	0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003		155.5659	155.5659	2.9800e-003	2.8500e-003	156.4904

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 51, M - San Diego County, 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	0.5981	0.2280	1.1596	1.4300e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1100e-003	5.0500e-003	278.9072
Unmitigated	0.5981	0.2280	1.1596	1.4300e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1100e-003	5.0500e-003	278.9072

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	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0252	0.2157	0.0918	1.3800e-003		0.0174	0.0174		0.0174	0.0174	0.0000	275.2941	275.2941	5.2800e-003	5.0500e-003	276.9301
Landscaping	0.0319	0.0123	1.0678	6.0000e-005		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003		1.9312	1.9312	1.8400e-003		1.9771
Total	0.5981	0.2280	1.1596	1.4400e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1200e-003	5.0500e-003	278.9072

Valley Center 51, M - San Diego County, 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	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0252	0.2157	0.0918	1.3800e-003		0.0174	0.0174		0.0174	0.0174	0.0000	275.2941	275.2941	5.2800e-003	5.0500e-003	276.9301
Landscaping	0.0319	0.0123	1.0678	6.0000e-005		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003		1.9312	1.9312	1.8400e-003		1.9771
Total	0.5981	0.2280	1.1596	1.4400e-003		0.0234	0.0234		0.0234	0.0234	0.0000	277.2253	277.2253	7.1200e-003	5.0500e-003	278.9072

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 51, M - San Diego County, Winter

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

Valley Center 57+, UM - San Diego County, Summer

Valley Center 57+, UM
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	231.00	Dwelling Unit	75.00	415,800.00	661

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Valley Center 57+, UM - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	5/26/2023
tblConstructionPhase	PhaseEndDate	12/31/2017	10/28/2022
tblConstructionPhase	PhaseEndDate	12/31/2017	7/27/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	2/10/2023
tblConstructionPhase	PhaseEndDate	12/31/2017	2/23/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/11/2023
tblConstructionPhase	PhaseStartDate	1/1/2018	7/28/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/24/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	10/29/2022
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	10.41
tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00

2.0 Emissions Summary

Valley Center 57+, UM - San Diego County, 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					
2018	5.2079	59.6127	36.0959	0.0648	18.2962	2.6355	20.8747	9.9917	2.4247	12.3639	0.0000	6,520.851 9	6,520.851 9	1.9532	0.0000	6,569.681 4
2019	2.9202	24.3727	21.7004	0.0445	1.2132	1.3168	2.5300	0.3252	1.2382	1.5634	0.0000	4,387.854 2	4,387.854 2	0.7204	0.0000	4,405.863 4
2020	2.6299	22.1883	20.9930	0.0440	1.2132	1.1368	2.3500	0.3252	1.0689	1.3942	0.0000	4,309.793 1	4,309.793 1	0.7058	0.0000	4,327.437 9
2021	2.3710	20.1546	20.4362	0.0436	1.2132	0.9706	2.1838	0.3252	0.9125	1.2377	0.0000	4,267.665 8	4,267.665 8	0.6945	0.0000	4,285.027 2
2022	2.1502	18.1838	19.9660	0.0432	1.2132	0.8201	2.0333	0.3252	0.7715	1.0968	0.0000	4,224.096 3	4,224.096 3	0.7188	0.0000	4,241.256 1
2023	34.9552	10.2335	15.0912	0.0246	0.2171	0.5114	0.7030	0.0576	0.4705	0.5213	0.0000	2,381.913 6	2,381.913 6	0.7184	0.0000	2,399.872 9
Maximum	34.9552	59.6127	36.0959	0.0648	18.2962	2.6355	20.8747	9.9917	2.4247	12.3639	0.0000	6,520.851 9	6,520.851 9	1.9532	0.0000	6,569.681 4

Valley Center 57+, UM - San Diego County, 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	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519
Energy	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Mobile	2.2702	11.6300	31.1207	0.1563	18.8800	0.0542	18.9343	5.0460	0.0505	5.0965		16,095.7701	16,095.7701	0.7062		16,113.4256
Total	366.2232	20.9182	487.3997	0.9617	18.8800	61.5201	80.4002	5.0460	61.5164	66.5624	6,415.2698	21,584.8427	28,000.1125	6.7121	0.5553	28,333.3906

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	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519
Energy	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Mobile	2.2702	11.6300	31.1207	0.1563	18.8800	0.0542	18.9343	5.0460	0.0505	5.0965		16,095.7701	16,095.7701	0.7062		16,113.4256
Total	366.2232	20.9182	487.3997	0.9617	18.8800	61.5201	80.4002	5.0460	61.5164	66.5624	6,415.2698	21,584.8427	28,000.1125	6.7121	0.5553	28,333.3906

Valley Center 57+, UM - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	2/23/2018	5	40	
2	Grading	Grading	2/24/2018	7/27/2018	5	110	
3	Building Construction	Building Construction	7/28/2018	10/28/2022	5	1110	
4	Paving	Paving	10/29/2022	2/10/2023	5	75	
5	Architectural Coating	Architectural Coating	2/11/2023	5/26/2023	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 841,995; Residential Outdoor: 280,665; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 57+, UM - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	17.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	25.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Valley Center 57+, UM - San Diego County, Summer

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

Valley Center 57+, UM - San Diego County, Summer

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

Valley Center 57+, UM - San Diego County, Summer

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536
Total	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536

Valley Center 57+, UM - San Diego County, Summer

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536
Total	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536

Valley Center 57+, UM - San Diego County, Summer

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1208	3.1357	0.8294	6.4300e-003	0.1531	0.0234	0.1765	0.0441	0.0224	0.0665		688.6279	688.6279	0.0564		690.0366
Worker	0.4888	0.3775	4.1769	0.0115	1.0602	7.3400e-003	1.0675	0.2811	6.7700e-003	0.2879		1,147.157 5	1,147.157 5	0.0382		1,148.112 3
Total	0.6096	3.5131	5.0063	0.0180	1.2132	0.0308	1.2440	0.3252	0.0292	0.3544		1,835.785 3	1,835.785 3	0.0945		1,838.148 9

Valley Center 57+, UM - San Diego County, Summer

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1208	3.1357	0.8294	6.4300e-003	0.1531	0.0234	0.1765	0.0441	0.0224	0.0665		688.6279	688.6279	0.0564		690.0366
Worker	0.4888	0.3775	4.1769	0.0115	1.0602	7.3400e-003	1.0675	0.2811	6.7700e-003	0.2879		1,147.157 5	1,147.157 5	0.0382		1,148.112 3
Total	0.6096	3.5131	5.0063	0.0180	1.2132	0.0308	1.2440	0.3252	0.0292	0.3544		1,835.785 3	1,835.785 3	0.0945		1,838.148 9

Valley Center 57+, UM - San Diego County, Summer

3.4 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	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1079	2.9562	0.7606	6.3800e-003	0.1531	0.0196	0.1727	0.0441	0.0188	0.0628		683.7047	683.7047	0.0544		685.0656
Worker	0.4511	0.3377	3.7759	0.0112	1.0602	7.2700e-003	1.0674	0.2811	6.7000e-003	0.2878		1,112.569 4	1,112.569 4	0.0346		1,113.434 3
Total	0.5590	3.2939	4.5366	0.0176	1.2132	0.0269	1.2401	0.3252	0.0255	0.3507		1,796.274 1	1,796.274 1	0.0890		1,798.499 9

Valley Center 57+, UM - San Diego County, Summer

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1079	2.9562	0.7606	6.3800e-003	0.1531	0.0196	0.1727	0.0441	0.0188	0.0628		683.7047	683.7047	0.0544		685.0656
Worker	0.4511	0.3377	3.7759	0.0112	1.0602	7.2700e-003	1.0674	0.2811	6.7000e-003	0.2878		1,112.569 4	1,112.569 4	0.0346		1,113.434 3
Total	0.5590	3.2939	4.5366	0.0176	1.2132	0.0269	1.2401	0.3252	0.0255	0.3507		1,796.274 1	1,796.274 1	0.0890		1,798.499 9

Valley Center 57+, UM - San Diego County, Summer

3.4 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	0.0879	2.6973	0.6831	6.3200e-003	0.1531	0.0126	0.1656	0.0441	0.0120	0.0561		679.2929	679.2929	0.0516		680.5827
Worker	0.4221	0.3049	3.4614	0.0108	1.0602	7.1500e-003	1.0673	0.2811	6.5900e-003	0.2877		1,077.437 2	1,077.437 2	0.0313		1,078.220 7
Total	0.5100	3.0023	4.1445	0.0171	1.2132	0.0197	1.2330	0.3252	0.0186	0.3438		1,756.730 1	1,756.730 1	0.0829		1,758.803 4

Valley Center 57+, UM - San Diego County, Summer

3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	0.0879	2.6973	0.6831	6.3200e-003	0.1531	0.0126	0.1656	0.0441	0.0120	0.0561		679.2929	679.2929	0.0516		680.5827
Worker	0.4221	0.3049	3.4614	0.0108	1.0602	7.1500e-003	1.0673	0.2811	6.5900e-003	0.2877		1,077.437 2	1,077.437 2	0.0313		1,078.220 7
Total	0.5100	3.0023	4.1445	0.0171	1.2132	0.0197	1.2330	0.3252	0.0186	0.3438		1,756.730 1	1,756.730 1	0.0829		1,758.803 4

Valley Center 57+, UM - San Diego County, Summer

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0715	2.4451	0.6177	6.2600e-003	0.1531	4.9000e-003	0.1580	0.0441	4.6800e-003	0.0488		673.0782	673.0782	0.0495		674.3149
Worker	0.3986	0.2774	3.2434	0.0105	1.0602	7.0400e-003	1.0672	0.2811	6.4900e-003	0.2876		1,041.2236	1,041.2236	0.0290		1,041.9480
Total	0.4701	2.7225	3.8610	0.0167	1.2132	0.0119	1.2252	0.3252	0.0112	0.3364		1,714.3019	1,714.3019	0.0785		1,716.2629

Valley Center 57+, UM - San Diego County, Summer

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0715	2.4451	0.6177	6.2600e-003	0.1531	4.9000e-003	0.1580	0.0441	4.6800e-003	0.0488		673.0782	673.0782	0.0495		674.3149
Worker	0.3986	0.2774	3.2434	0.0105	1.0602	7.0400e-003	1.0672	0.2811	6.4900e-003	0.2876		1,041.2236	1,041.2236	0.0290		1,041.9480
Total	0.4701	2.7225	3.8610	0.0167	1.2132	0.0119	1.2252	0.3252	0.0112	0.3364		1,714.3019	1,714.3019	0.0785		1,716.2629

Valley Center 57+, UM - San Diego County, Summer

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0664	2.3149	0.5843	6.1900e-003	0.1531	4.2100e-003	0.1573	0.0441	4.0300e-003	0.0481		666.7704	666.7704	0.0479		667.9672
Worker	0.3775	0.2532	3.0183	0.0101	1.0602	6.8900e-003	1.0671	0.2811	6.3400e-003	0.2875		1,002.9923	1,002.9923	0.0266		1,003.6567
Total	0.4439	2.5681	3.6026	0.0163	1.2132	0.0111	1.2243	0.3252	0.0104	0.3356		1,669.7627	1,669.7627	0.0745		1,671.6239

Valley Center 57+, UM - San Diego County, Summer

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0664	2.3149	0.5843	6.1900e-003	0.1531	4.2100e-003	0.1573	0.0441	4.0300e-003	0.0481		666.7704	666.7704	0.0479		667.9672
Worker	0.3775	0.2532	3.0183	0.0101	1.0602	6.8900e-003	1.0671	0.2811	6.3400e-003	0.2875		1,002.9923	1,002.9923	0.0266		1,003.6567
Total	0.4439	2.5681	3.6026	0.0163	1.2132	0.0111	1.2243	0.3252	0.0104	0.3356		1,669.7627	1,669.7627	0.0745		1,671.6239

Valley Center 57+, UM - San Diego County, Summer

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0682	0.0458	0.5455	1.8200e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		181.2637	181.2637	4.8000e-003		181.3837
Total	0.0682	0.0458	0.5455	1.8200e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		181.2637	181.2637	4.8000e-003		181.3837

Valley Center 57+, UM - San Diego County, Summer

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0682	0.0458	0.5455	1.8200e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		181.2637	181.2637	4.8000e-003		181.3837
Total	0.0682	0.0458	0.5455	1.8200e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		181.2637	181.2637	4.8000e-003		181.3837

Valley Center 57+, UM - San Diego County, Summer

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394
Total	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394

Valley Center 57+, UM - San Diego County, Summer

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394
Total	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394

Valley Center 57+, UM - San Diego County, Summer

3.6 Architectural Coating - 2023

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	34.6902					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	34.8819	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0733	0.0474	0.5746	1.9800e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		197.5733	197.5733	4.9800e-003		197.6979
Total	0.0733	0.0474	0.5746	1.9800e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		197.5733	197.5733	4.9800e-003		197.6979

Valley Center 57+, UM - San Diego County, Summer

3.6 Architectural Coating - 2023

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	34.6902					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	34.8819	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0733	0.0474	0.5746	1.9800e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		197.5733	197.5733	4.9800e-003		197.6979
Total	0.0733	0.0474	0.5746	1.9800e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		197.5733	197.5733	4.9800e-003		197.6979

4.0 Operational Detail - Mobile

Valley Center 57+, UM - San Diego County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2702	11.6300	31.1207	0.1563	18.8800	0.0542	18.9343	5.0460	0.0505	5.0965		16,095.7701	16,095.7701	0.7062		16,113.4256
Unmitigated	2.2702	11.6300	31.1207	0.1563	18.8800	0.0542	18.9343	5.0460	0.0505	5.0965		16,095.7701	16,095.7701	0.7062		16,113.4256

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,310.00	2,404.71	2090.55	8,482,580	8,482,580
Total	2,310.00	2,404.71	2,090.55	8,482,580	8,482,580

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 57+, UM - San Diego County, Summer

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	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
NaturalGas Unmitigated	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

Valley Center 57+, UM - San Diego County, 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					
Single Family Housing	23496.4	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Total		0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

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					
Single Family Housing	23.4964	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Total		0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 57+, UM - San Diego County, 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	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519
Unmitigated	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519

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	0.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	353.5212	6.9039	436.3836	0.7906		61.1851	61.1851		61.1851	61.1851	6,415.2698	2,690.4706	9,105.7404	5.9202	0.5046	9,404.1197
Landscaping	0.5675	0.2190	18.9741	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3156	34.3156	0.0327		35.1322
Total	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519

Valley Center 57+, UM - San Diego County, 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	0.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	353.5212	6.9039	436.3836	0.7906		61.1851	61.1851		61.1851	61.1851	6,415.2698	2,690.4706	9,105.7404	5.9202	0.5046	9,404.1197
Landscaping	0.5675	0.2190	18.9741	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3156	34.3156	0.0327		35.1322
Total	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 57+, UM - San Diego County, Summer

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

Valley Center 57+, M - San Diego County, Summer

Valley Center 57+, M
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	231.00	Dwelling Unit	75.00	415,800.00	661

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

Valley Center 57+, M - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	5/26/2023
tblConstructionPhase	PhaseEndDate	12/31/2017	10/28/2022
tblConstructionPhase	PhaseEndDate	12/31/2017	7/27/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	2/10/2023
tblConstructionPhase	PhaseEndDate	12/31/2017	2/23/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/11/2023
tblConstructionPhase	PhaseStartDate	1/1/2018	7/28/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/24/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	10/29/2022
tblFireplaces	NumberGas	127.05	231.00
tblFireplaces	NumberNoFireplace	23.10	0.00
tblFireplaces	NumberWood	80.85	0.00
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	10.41

Valley Center 57+, M - San Diego County, Summer

tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00
tblWoodstoves	NumberCatalytic	11.55	0.00
tblWoodstoves	NumberNoncatalytic	11.55	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.2079	59.6127	36.0959	0.0648	18.2962	2.6355	20.8747	9.9917	2.4247	12.3639	0.0000	6,520.8519	6,520.8519	1.9532	0.0000	6,569.6814
2019	2.9202	24.3727	21.7004	0.0445	1.2132	1.3168	2.5300	0.3252	1.2382	1.5634	0.0000	4,387.8542	4,387.8542	0.7204	0.0000	4,405.8634
2020	2.6299	22.1883	20.9930	0.0440	1.2132	1.1368	2.3500	0.3252	1.0689	1.3942	0.0000	4,309.7931	4,309.7931	0.7058	0.0000	4,327.4379
2021	2.3710	20.1546	20.4362	0.0436	1.2132	0.9706	2.1838	0.3252	0.9125	1.2377	0.0000	4,267.6658	4,267.6658	0.6945	0.0000	4,285.0272
2022	2.1502	18.1838	19.9660	0.0432	1.2132	0.8201	2.0333	0.3252	0.7715	1.0968	0.0000	4,224.0963	4,224.0963	0.7188	0.0000	4,241.2561
2023	34.9552	10.2335	15.0912	0.0246	0.2171	0.5114	0.7030	0.0576	0.4705	0.5213	0.0000	2,381.9136	2,381.9136	0.7184	0.0000	2,399.8729
Maximum	34.9552	59.6127	36.0959	0.0648	18.2962	2.6355	20.8747	9.9917	2.4247	12.3639	0.0000	6,520.8519	6,520.8519	1.9532	0.0000	6,569.6814

Valley Center 57+, M - San Diego County, 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	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.080 3	4,926.080 3	0.1264	0.0897	4,955.966 2
Energy	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.286 4	2,764.286 4	0.0530	0.0507	2,780.713 1
Mobile	2.2702	11.6300	31.1207	0.1563	18.8800	0.0542	18.9343	5.0460	0.0505	5.0965		16,095.77 01	16,095.77 01	0.7062		16,113.42 56
Total	13.1504	17.8462	52.6467	0.1956	18.8800	0.6448	19.5249	5.0460	0.6411	5.6871	0.0000	23,786.13 68	23,786.13 68	0.8856	0.1404	23,850.10 49

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	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.080 3	4,926.080 3	0.1264	0.0897	4,955.966 2
Energy	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.286 4	2,764.286 4	0.0530	0.0507	2,780.713 1
Mobile	2.2702	11.6300	31.1207	0.1563	18.8800	0.0542	18.9343	5.0460	0.0505	5.0965		16,095.77 01	16,095.77 01	0.7062		16,113.42 56
Total	13.1504	17.8462	52.6467	0.1956	18.8800	0.6448	19.5249	5.0460	0.6411	5.6871	0.0000	23,786.13 68	23,786.13 68	0.8856	0.1404	23,850.10 49

Valley Center 57+, M - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	2/23/2018	5	40	
2	Grading	Grading	2/24/2018	7/27/2018	5	110	
3	Building Construction	Building Construction	7/28/2018	10/28/2022	5	1110	
4	Paving	Paving	10/29/2022	2/10/2023	5	75	
5	Architectural Coating	Architectural Coating	2/11/2023	5/26/2023	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 841,995; Residential Outdoor: 280,665; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 57+, M - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	17.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	25.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Valley Center 57+, M - San Diego County, Summer

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

Valley Center 57+, M - San Diego County, Summer

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

Valley Center 57+, M - San Diego County, Summer

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536
Total	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536

Valley Center 57+, M - San Diego County, Summer

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536
Total	0.1178	0.0910	1.0065	2.7800e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		276.4235	276.4235	9.2000e-003		276.6536

Valley Center 57+, M - San Diego County, Summer

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.1208	3.1357	0.8294	6.4300e-003	0.1531	0.0234	0.1765	0.0441	0.0224	0.0665		688.6279	688.6279	0.0564		690.0366
Worker	0.4888	0.3775	4.1769	0.0115	1.0602	7.3400e-003	1.0675	0.2811	6.7700e-003	0.2879		1,147.1575	1,147.1575	0.0382		1,148.1123
Total	0.6096	3.5131	5.0063	0.0180	1.2132	0.0308	1.2440	0.3252	0.0292	0.3544		1,835.7853	1,835.7853	0.0945		1,838.1489

Valley Center 57+, M - San Diego County, Summer

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1208	3.1357	0.8294	6.4300e-003	0.1531	0.0234	0.1765	0.0441	0.0224	0.0665		688.6279	688.6279	0.0564		690.0366
Worker	0.4888	0.3775	4.1769	0.0115	1.0602	7.3400e-003	1.0675	0.2811	6.7700e-003	0.2879		1,147.157 5	1,147.157 5	0.0382		1,148.112 3
Total	0.6096	3.5131	5.0063	0.0180	1.2132	0.0308	1.2440	0.3252	0.0292	0.3544		1,835.785 3	1,835.785 3	0.0945		1,838.148 9

Valley Center 57+, M - San Diego County, Summer

3.4 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	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1079	2.9562	0.7606	6.3800e-003	0.1531	0.0196	0.1727	0.0441	0.0188	0.0628		683.7047	683.7047	0.0544		685.0656
Worker	0.4511	0.3377	3.7759	0.0112	1.0602	7.2700e-003	1.0674	0.2811	6.7000e-003	0.2878		1,112.569 4	1,112.569 4	0.0346		1,113.434 3
Total	0.5590	3.2939	4.5366	0.0176	1.2132	0.0269	1.2401	0.3252	0.0255	0.3507		1,796.274 1	1,796.274 1	0.0890		1,798.499 9

Valley Center 57+, M - San Diego County, Summer

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1079	2.9562	0.7606	6.3800e-003	0.1531	0.0196	0.1727	0.0441	0.0188	0.0628		683.7047	683.7047	0.0544		685.0656
Worker	0.4511	0.3377	3.7759	0.0112	1.0602	7.2700e-003	1.0674	0.2811	6.7000e-003	0.2878		1,112.569 4	1,112.569 4	0.0346		1,113.434 3
Total	0.5590	3.2939	4.5366	0.0176	1.2132	0.0269	1.2401	0.3252	0.0255	0.3507		1,796.274 1	1,796.274 1	0.0890		1,798.499 9

Valley Center 57+, M - San Diego County, Summer

3.4 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	0.0879	2.6973	0.6831	6.3200e-003	0.1531	0.0126	0.1656	0.0441	0.0120	0.0561		679.2929	679.2929	0.0516		680.5827
Worker	0.4221	0.3049	3.4614	0.0108	1.0602	7.1500e-003	1.0673	0.2811	6.5900e-003	0.2877		1,077.437 2	1,077.437 2	0.0313		1,078.220 7
Total	0.5100	3.0023	4.1445	0.0171	1.2132	0.0197	1.2330	0.3252	0.0186	0.3438		1,756.730 1	1,756.730 1	0.0829		1,758.803 4

Valley Center 57+, M - San Diego County, Summer

3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	0.0879	2.6973	0.6831	6.3200e-003	0.1531	0.0126	0.1656	0.0441	0.0120	0.0561		679.2929	679.2929	0.0516		680.5827
Worker	0.4221	0.3049	3.4614	0.0108	1.0602	7.1500e-003	1.0673	0.2811	6.5900e-003	0.2877		1,077.437 2	1,077.437 2	0.0313		1,078.220 7
Total	0.5100	3.0023	4.1445	0.0171	1.2132	0.0197	1.2330	0.3252	0.0186	0.3438		1,756.730 1	1,756.730 1	0.0829		1,758.803 4

Valley Center 57+, M - San Diego County, Summer

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0715	2.4451	0.6177	6.2600e-003	0.1531	4.9000e-003	0.1580	0.0441	4.6800e-003	0.0488		673.0782	673.0782	0.0495		674.3149
Worker	0.3986	0.2774	3.2434	0.0105	1.0602	7.0400e-003	1.0672	0.2811	6.4900e-003	0.2876		1,041.2236	1,041.2236	0.0290		1,041.9480
Total	0.4701	2.7225	3.8610	0.0167	1.2132	0.0119	1.2252	0.3252	0.0112	0.3364		1,714.3019	1,714.3019	0.0785		1,716.2629

Valley Center 57+, M - San Diego County, Summer

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0715	2.4451	0.6177	6.2600e-003	0.1531	4.9000e-003	0.1580	0.0441	4.6800e-003	0.0488		673.0782	673.0782	0.0495		674.3149
Worker	0.3986	0.2774	3.2434	0.0105	1.0602	7.0400e-003	1.0672	0.2811	6.4900e-003	0.2876		1,041.2236	1,041.2236	0.0290		1,041.9480
Total	0.4701	2.7225	3.8610	0.0167	1.2132	0.0119	1.2252	0.3252	0.0112	0.3364		1,714.3019	1,714.3019	0.0785		1,716.2629

Valley Center 57+, M - San Diego County, Summer

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0664	2.3149	0.5843	6.1900e-003	0.1531	4.2100e-003	0.1573	0.0441	4.0300e-003	0.0481		666.7704	666.7704	0.0479		667.9672
Worker	0.3775	0.2532	3.0183	0.0101	1.0602	6.8900e-003	1.0671	0.2811	6.3400e-003	0.2875		1,002.9923	1,002.9923	0.0266		1,003.6567
Total	0.4439	2.5681	3.6026	0.0163	1.2132	0.0111	1.2243	0.3252	0.0104	0.3356		1,669.7627	1,669.7627	0.0745		1,671.6239

Valley Center 57+, M - San Diego County, Summer

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0664	2.3149	0.5843	6.1900e-003	0.1531	4.2100e-003	0.1573	0.0441	4.0300e-003	0.0481		666.7704	666.7704	0.0479		667.9672
Worker	0.3775	0.2532	3.0183	0.0101	1.0602	6.8900e-003	1.0671	0.2811	6.3400e-003	0.2875		1,002.9923	1,002.9923	0.0266		1,003.6567
Total	0.4439	2.5681	3.6026	0.0163	1.2132	0.0111	1.2243	0.3252	0.0104	0.3356		1,669.7627	1,669.7627	0.0745		1,671.6239

Valley Center 57+, M - San Diego County, Summer

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0682	0.0458	0.5455	1.8200e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		181.2637	181.2637	4.8000e-003		181.3837
Total	0.0682	0.0458	0.5455	1.8200e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		181.2637	181.2637	4.8000e-003		181.3837

Valley Center 57+, M - San Diego County, Summer

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0682	0.0458	0.5455	1.8200e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		181.2637	181.2637	4.8000e-003		181.3837
Total	0.0682	0.0458	0.5455	1.8200e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		181.2637	181.2637	4.8000e-003		181.3837

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3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394
Total	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394

Valley Center 57+, M - San Diego County, Summer

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394
Total	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394

Valley Center 57+, M - San Diego County, Summer

3.6 Architectural Coating - 2023

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	34.6902					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	34.8819	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0733	0.0474	0.5746	1.9800e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		197.5733	197.5733	4.9800e-003		197.6979
Total	0.0733	0.0474	0.5746	1.9800e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		197.5733	197.5733	4.9800e-003		197.6979

Valley Center 57+, M - San Diego County, Summer

3.6 Architectural Coating - 2023

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	34.6902					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	34.8819	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0733	0.0474	0.5746	1.9800e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		197.5733	197.5733	4.9800e-003		197.6979
Total	0.0733	0.0474	0.5746	1.9800e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		197.5733	197.5733	4.9800e-003		197.6979

4.0 Operational Detail - Mobile

Valley Center 57+, M - San Diego County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2702	11.6300	31.1207	0.1563	18.8800	0.0542	18.9343	5.0460	0.0505	5.0965		16,095.7701	16,095.7701	0.7062		16,113.4256
Unmitigated	2.2702	11.6300	31.1207	0.1563	18.8800	0.0542	18.9343	5.0460	0.0505	5.0965		16,095.7701	16,095.7701	0.7062		16,113.4256

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,310.00	2,404.71	2090.55	8,482,580	8,482,580
Total	2,310.00	2,404.71	2,090.55	8,482,580	8,482,580

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 57+, M - San Diego County, Summer

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	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
NaturalGas Unmitigated	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

Valley Center 57+, M - San Diego County, 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					
Single Family Housing	23496.4	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Total		0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

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					
Single Family Housing	23.4964	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Total		0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 57+, M - San Diego County, 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	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.0803	4,926.0803	0.1264	0.0897	4,955.9662
Unmitigated	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.0803	4,926.0803	0.1264	0.0897	4,955.9662

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	0.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	0.5675	0.2190	18.9741	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3156	34.3156	0.0327		35.1322
Total	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.0803	4,926.0803	0.1264	0.0897	4,955.9662

Valley Center 57+, M - San Diego County, 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	0.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	0.5675	0.2190	18.9741	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3156	34.3156	0.0327		35.1322
Total	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.0803	4,926.0803	0.1264	0.0897	4,955.9662

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 57+, M - San Diego County, Summer

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

Valley Center 57+, UM - San Diego County, Winter

Valley Center 57+, UM
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	231.00	Dwelling Unit	75.00	415,800.00	661

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

- Project Characteristics -
- Land Use -
- Construction Phase -
- Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)
- Vehicle Trips - Using SANDAG Weekday rate
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Valley Center 57+, UM - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	5/26/2023
tblConstructionPhase	PhaseEndDate	12/31/2017	10/28/2022
tblConstructionPhase	PhaseEndDate	12/31/2017	7/27/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	2/10/2023
tblConstructionPhase	PhaseEndDate	12/31/2017	2/23/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/11/2023
tblConstructionPhase	PhaseStartDate	1/1/2018	7/28/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/24/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	10/29/2022
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	10.41
tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00

2.0 Emissions Summary

Valley Center 57+, UM - San Diego County, 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					
2018	5.2262	59.6239	36.0248	0.0646	18.2962	2.6355	20.8747	9.9917	2.4247	12.3639	0.0000	6,503.8287	6,503.8287	1.9527	0.0000	6,552.6447
2019	2.9961	24.4115	21.5067	0.0436	1.2132	1.3171	2.5304	0.3252	1.2386	1.5638	0.0000	4,300.4907	4,300.4907	0.7219	0.0000	4,318.5389
2020	2.7016	22.2190	20.8074	0.0432	1.2132	1.1370	2.3503	0.3252	1.0692	1.3944	0.0000	4,224.4260	4,224.4260	0.7073	0.0000	4,242.1070
2021	2.4394	20.1781	20.2543	0.0428	1.2132	0.9708	2.1840	0.3252	0.9127	1.2379	0.0000	4,184.6274	4,184.6274	0.6958	0.0000	4,202.0236
2022	2.2160	18.2032	19.7924	0.0424	1.2132	0.8203	2.0335	0.3252	0.7717	1.0969	0.0000	4,143.5041	4,143.5041	0.7185	0.0000	4,160.6975
2023	34.9675	10.2385	15.0494	0.0244	0.2171	0.5114	0.7030	0.0576	0.4705	0.5213	0.0000	2,371.1756	2,371.1756	0.7181	0.0000	2,389.1278
Maximum	34.9675	59.6239	36.0248	0.0646	18.2962	2.6355	20.8747	9.9917	2.4247	12.3639	0.0000	6,503.8287	6,503.8287	1.9527	0.0000	6,552.6447

Valley Center 57+, UM - San Diego County, 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	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519
Energy	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Mobile	2.2240	11.8420	30.0384	0.1488	18.8800	0.0543	18.9344	5.0460	0.0506	5.0966		15,341.0177	15,341.0177	0.7079		15,358.7157
Total	366.1770	21.1302	486.3175	0.9543	18.8800	61.5202	80.4002	5.0460	61.5165	66.5625	6,415.2698	20,830.0902	27,245.3600	6.7138	0.5553	27,578.6807

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	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519
Energy	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Mobile	2.2240	11.8420	30.0384	0.1488	18.8800	0.0543	18.9344	5.0460	0.0506	5.0966		15,341.0177	15,341.0177	0.7079		15,358.7157
Total	366.1770	21.1302	486.3175	0.9543	18.8800	61.5202	80.4002	5.0460	61.5165	66.5625	6,415.2698	20,830.0902	27,245.3600	6.7138	0.5553	27,578.6807

Valley Center 57+, UM - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	2/23/2018	5	40	
2	Grading	Grading	2/24/2018	7/27/2018	5	110	
3	Building Construction	Building Construction	7/28/2018	10/28/2022	5	1110	
4	Paving	Paving	10/29/2022	2/10/2023	5	75	
5	Architectural Coating	Architectural Coating	2/11/2023	5/26/2023	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 841,995; Residential Outdoor: 280,665; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 57+, UM - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	17.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	25.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Valley Center 57+, UM - San Diego County, Winter

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

Valley Center 57+, UM - San Diego County, Winter

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

Valley Center 57+, UM - San Diego County, Winter

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 57+, UM - San Diego County, Winter

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 57+, UM - San Diego County, Winter

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1262	3.1357	0.9227	6.2600e-003	0.1531	0.0239	0.1769	0.0441	0.0228	0.0669		669.8980	669.8980	0.0602		671.4021
Worker	0.5646	0.4237	3.8818	0.0108	1.0602	7.3400e-003	1.0675	0.2811	6.7700e-003	0.2879		1,076.511 2	1,076.511 2	0.0360		1,077.410 3
Total	0.6908	3.5594	4.8045	0.0171	1.2132	0.0312	1.2444	0.3252	0.0296	0.3548		1,746.409 2	1,746.409 2	0.0961		1,748.812 4

Valley Center 57+, UM - San Diego County, Winter

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1262	3.1357	0.9227	6.2600e-003	0.1531	0.0239	0.1769	0.0441	0.0228	0.0669		669.8980	669.8980	0.0602		671.4021
Worker	0.5646	0.4237	3.8818	0.0108	1.0602	7.3400e-003	1.0675	0.2811	6.7700e-003	0.2879		1,076.511 2	1,076.511 2	0.0360		1,077.410 3
Total	0.6908	3.5594	4.8045	0.0171	1.2132	0.0312	1.2444	0.3252	0.0296	0.3548		1,746.409 2	1,746.409 2	0.0961		1,748.812 4

Valley Center 57+, UM - San Diego County, Winter

3.4 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	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1128	2.9537	0.8481	6.2000e-003	0.1531	0.0200	0.1731	0.0441	0.0191	0.0632		664.9137	664.9137	0.0581		666.3659
Worker	0.5222	0.3790	3.4948	0.0105	1.0602	7.2700e-003	1.0674	0.2811	6.7000e-003	0.2878		1,043.996 8	1,043.996 8	0.0325		1,044.809 4
Total	0.6349	3.3327	4.3429	0.0167	1.2132	0.0273	1.2405	0.3252	0.0258	0.3511		1,708.910 6	1,708.910 6	0.0906		1,711.175 4

Valley Center 57+, UM - San Diego County, Winter

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1128	2.9537	0.8481	6.2000e-003	0.1531	0.0200	0.1731	0.0441	0.0191	0.0632		664.9137	664.9137	0.0581		666.3659
Worker	0.5222	0.3790	3.4948	0.0105	1.0602	7.2700e-003	1.0674	0.2811	6.7000e-003	0.2878		1,043.996 8	1,043.996 8	0.0325		1,044.809 4
Total	0.6349	3.3327	4.3429	0.0167	1.2132	0.0273	1.2405	0.3252	0.0258	0.3511		1,708.910 6	1,708.910 6	0.0906		1,711.175 4

Valley Center 57+, UM - San Diego County, Winter

3.4 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	0.0923	2.6908	0.7624	6.1500e-003	0.1531	0.0128	0.1659	0.0441	0.0123	0.0563		660.3483	660.3483	0.0550		661.7231
Worker	0.4895	0.3422	3.1965	0.0101	1.0602	7.1500e-003	1.0673	0.2811	6.5900e-003	0.2877		1,011.014 7	1,011.014 7	0.0294		1,011.749 4
Total	0.5818	3.0329	3.9589	0.0163	1.2132	0.0200	1.2332	0.3252	0.0189	0.3441		1,671.362 9	1,671.362 9	0.0844		1,673.472 5

Valley Center 57+, UM - San Diego County, Winter

3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	0.0923	2.6908	0.7624	6.1500e-003	0.1531	0.0128	0.1659	0.0441	0.0123	0.0563		660.3483	660.3483	0.0550		661.7231
Worker	0.4895	0.3422	3.1965	0.0101	1.0602	7.1500e-003	1.0673	0.2811	6.5900e-003	0.2877		1,011.014 7	1,011.014 7	0.0294		1,011.749 4
Total	0.5818	3.0329	3.9589	0.0163	1.2132	0.0200	1.2332	0.3252	0.0189	0.3441		1,671.362 9	1,671.362 9	0.0844		1,673.472 5

Valley Center 57+, UM - San Diego County, Winter

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0755	2.4348	0.6917	6.0800e-003	0.1531	5.1100e-003	0.1582	0.0441	4.8900e-003	0.0490		654.2466	654.2466	0.0527		655.5641
Worker	0.4629	0.3112	2.9874	9.8000e-003	1.0602	7.0400e-003	1.0672	0.2811	6.4900e-003	0.2876		977.0169	977.0169	0.0271		977.6952
Total	0.5384	2.7460	3.6791	0.0159	1.2132	0.0122	1.2254	0.3252	0.0114	0.3366		1,631.2635	1,631.2635	0.0798		1,633.2593

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3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0755	2.4348	0.6917	6.0800e-003	0.1531	5.1100e-003	0.1582	0.0441	4.8900e-003	0.0490		654.2466	654.2466	0.0527		655.5641
Worker	0.4629	0.3112	2.9874	9.8000e-003	1.0602	7.0400e-003	1.0672	0.2811	6.4900e-003	0.2876		977.0169	977.0169	0.0271		977.6952
Total	0.5384	2.7460	3.6791	0.0159	1.2132	0.0122	1.2254	0.3252	0.0114	0.3366		1,631.2635	1,631.2635	0.0798		1,633.2593

Valley Center 57+, UM - San Diego County, Winter

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0702	2.3036	0.6541	6.0200e-003	0.1531	4.4000e-003	0.1575	0.0441	4.2100e-003	0.0483		647.9925	647.9925	0.0509		649.2658
Worker	0.4396	0.2840	2.7749	9.4400e-003	1.0602	6.8900e-003	1.0671	0.2811	6.3400e-003	0.2875		941.1781	941.1781	0.0249		941.7994
Total	0.5098	2.5875	3.4290	0.0155	1.2132	0.0113	1.2245	0.3252	0.0106	0.3358		1,589.1706	1,589.1706	0.0758		1,591.0653

Valley Center 57+, UM - San Diego County, Winter

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0702	2.3036	0.6541	6.0200e-003	0.1531	4.4000e-003	0.1575	0.0441	4.2100e-003	0.0483		647.9925	647.9925	0.0509		649.2658
Worker	0.4396	0.2840	2.7749	9.4400e-003	1.0602	6.8900e-003	1.0671	0.2811	6.3400e-003	0.2875		941.1781	941.1781	0.0249		941.7994
Total	0.5098	2.5875	3.4290	0.0155	1.2132	0.0113	1.2245	0.3252	0.0106	0.3358		1,589.1706	1,589.1706	0.0758		1,591.0653

Valley Center 57+, UM - San Diego County, Winter

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0794	0.0513	0.5015	1.7100e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		170.0924	170.0924	4.4900e-003		170.2047
Total	0.0794	0.0513	0.5015	1.7100e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		170.0924	170.0924	4.4900e-003		170.2047

Valley Center 57+, UM - San Diego County, Winter

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0794	0.0513	0.5015	1.7100e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		170.0924	170.0924	4.4900e-003		170.2047
Total	0.0794	0.0513	0.5015	1.7100e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		170.0924	170.0924	4.4900e-003		170.2047

Valley Center 57+, UM - San Diego County, Winter

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942
Total	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942

Valley Center 57+, UM - San Diego County, Winter

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942
Total	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942

Valley Center 57+, UM - San Diego County, Winter

3.6 Architectural Coating - 2023

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	34.6902					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	34.8819	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0857	0.0531	0.5272	1.8600e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		185.4037	185.4037	4.6600e-003		185.5201
Total	0.0857	0.0531	0.5272	1.8600e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		185.4037	185.4037	4.6600e-003		185.5201

Valley Center 57+, UM - San Diego County, Winter

3.6 Architectural Coating - 2023

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	34.6902					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	34.8819	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0857	0.0531	0.5272	1.8600e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		185.4037	185.4037	4.6600e-003		185.5201
Total	0.0857	0.0531	0.5272	1.8600e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		185.4037	185.4037	4.6600e-003		185.5201

4.0 Operational Detail - Mobile

Valley Center 57+, UM - San Diego County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2240	11.8420	30.0384	0.1488	18.8800	0.0543	18.9344	5.0460	0.0506	5.0966		15,341.0177	15,341.0177	0.7079		15,358.7157
Unmitigated	2.2240	11.8420	30.0384	0.1488	18.8800	0.0543	18.9344	5.0460	0.0506	5.0966		15,341.0177	15,341.0177	0.7079		15,358.7157

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,310.00	2,404.71	2090.55	8,482,580	8,482,580
Total	2,310.00	2,404.71	2,090.55	8,482,580	8,482,580

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 57+, UM - San Diego County, Winter

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	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
NaturalGas Unmitigated	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

Valley Center 57+, UM - San Diego County, 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					
Single Family Housing	23496.4	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Total		0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

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					
Single Family Housing	23.4964	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Total		0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 57+, UM - San Diego County, 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	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519
Unmitigated	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519

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	0.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	353.5212	6.9039	436.3836	0.7906		61.1851	61.1851		61.1851	61.1851	6,415.2698	2,690.4706	9,105.7404	5.9202	0.5046	9,404.1197
Landscaping	0.5675	0.2190	18.9741	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3156	34.3156	0.0327		35.1322
Total	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519

Valley Center 57+, UM - San Diego County, 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	0.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	353.5212	6.9039	436.3836	0.7906		61.1851	61.1851		61.1851	61.1851	6,415.2698	2,690.4706	9,105.7404	5.9202	0.5046	9,404.1197
Landscaping	0.5675	0.2190	18.9741	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3156	34.3156	0.0327		35.1322
Total	363.6997	7.1229	455.3576	0.7916		61.2908	61.2908		61.2908	61.2908	6,415.2698	2,724.7862	9,140.0560	5.9529	0.5046	9,439.2519

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 57+, UM - San Diego County, Winter

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

Valley Center 57+, M - San Diego County, Winter

Valley Center 57+, M
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	231.00	Dwelling Unit	75.00	415,800.00	661

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

- Project Characteristics -
- Land Use -
- Construction Phase -
- Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)
- Vehicle Trips - Using SANDAG Weekday rate
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)
- Woodstoves - Mitigation of 100% NG

Valley Center 57+, M - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	5/26/2023
tblConstructionPhase	PhaseEndDate	12/31/2017	10/28/2022
tblConstructionPhase	PhaseEndDate	12/31/2017	7/27/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	2/10/2023
tblConstructionPhase	PhaseEndDate	12/31/2017	2/23/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/11/2023
tblConstructionPhase	PhaseStartDate	1/1/2018	7/28/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/24/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	10/29/2022
tblFireplaces	NumberGas	127.05	231.00
tblFireplaces	NumberNoFireplace	23.10	0.00
tblFireplaces	NumberWood	80.85	0.00
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	10.41

Valley Center 57+, M - San Diego County, Winter

tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00
tblWoodstoves	NumberCatalytic	11.55	0.00
tblWoodstoves	NumberNoncatalytic	11.55	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.2262	59.6239	36.0248	0.0646	18.2962	2.6355	20.8747	9.9917	2.4247	12.3639	0.0000	6,503.8287	6,503.8287	1.9527	0.0000	6,552.6447
2019	2.9961	24.4115	21.5067	0.0436	1.2132	1.3171	2.5304	0.3252	1.2386	1.5638	0.0000	4,300.4907	4,300.4907	0.7219	0.0000	4,318.5389
2020	2.7016	22.2190	20.8074	0.0432	1.2132	1.1370	2.3503	0.3252	1.0692	1.3944	0.0000	4,224.4260	4,224.4260	0.7073	0.0000	4,242.1070
2021	2.4394	20.1781	20.2543	0.0428	1.2132	0.9708	2.1840	0.3252	0.9127	1.2379	0.0000	4,184.6274	4,184.6274	0.6958	0.0000	4,202.0236
2022	2.2160	18.2032	19.7924	0.0424	1.2132	0.8203	2.0335	0.3252	0.7717	1.0969	0.0000	4,143.5041	4,143.5041	0.7185	0.0000	4,160.6975
2023	34.9675	10.2385	15.0494	0.0244	0.2171	0.5114	0.7030	0.0576	0.4705	0.5213	0.0000	2,371.1756	2,371.1756	0.7181	0.0000	2,389.1278
Maximum	34.9675	59.6239	36.0248	0.0646	18.2962	2.6355	20.8747	9.9917	2.4247	12.3639	0.0000	6,503.8287	6,503.8287	1.9527	0.0000	6,552.6447

Valley Center 57+, M - San Diego County, 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	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.080 3	4,926.080 3	0.1264	0.0897	4,955.966 2
Energy	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.286 4	2,764.286 4	0.0530	0.0507	2,780.713 1
Mobile	2.2240	11.8420	30.0384	0.1488	18.8800	0.0543	18.9344	5.0460	0.0506	5.0966		15,341.01 77	15,341.01 77	0.7079		15,358.71 57
Total	13.1042	18.0583	51.5645	0.1881	18.8800	0.6449	19.5249	5.0460	0.6412	5.6871	0.0000	23,031.38 44	23,031.38 44	0.8873	0.1404	23,095.39 50

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	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.080 3	4,926.080 3	0.1264	0.0897	4,955.966 2
Energy	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.286 4	2,764.286 4	0.0530	0.0507	2,780.713 1
Mobile	2.2240	11.8420	30.0384	0.1488	18.8800	0.0543	18.9344	5.0460	0.0506	5.0966		15,341.01 77	15,341.01 77	0.7079		15,358.71 57
Total	13.1042	18.0583	51.5645	0.1881	18.8800	0.6449	19.5249	5.0460	0.6412	5.6871	0.0000	23,031.38 44	23,031.38 44	0.8873	0.1404	23,095.39 50

Valley Center 57+, M - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	2/23/2018	5	40	
2	Grading	Grading	2/24/2018	7/27/2018	5	110	
3	Building Construction	Building Construction	7/28/2018	10/28/2022	5	1110	
4	Paving	Paving	10/29/2022	2/10/2023	5	75	
5	Architectural Coating	Architectural Coating	2/11/2023	5/26/2023	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 841,995; Residential Outdoor: 280,665; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 57+, M - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	17.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	25.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Valley Center 57+, M - San Diego County, Winter

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

Valley Center 57+, M - San Diego County, Winter

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

Valley Center 57+, M - San Diego County, Winter

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 57+, M - San Diego County, Winter

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169
Total	0.1361	0.1021	0.9354	2.6000e-003	0.2555	1.7700e-003	0.2572	0.0678	1.6300e-003	0.0694		259.4003	259.4003	8.6700e-003		259.6169

Valley Center 57+, M - San Diego County, Winter

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1262	3.1357	0.9227	6.2600e-003	0.1531	0.0239	0.1769	0.0441	0.0228	0.0669		669.8980	669.8980	0.0602		671.4021
Worker	0.5646	0.4237	3.8818	0.0108	1.0602	7.3400e-003	1.0675	0.2811	6.7700e-003	0.2879		1,076.511 2	1,076.511 2	0.0360		1,077.410 3
Total	0.6908	3.5594	4.8045	0.0171	1.2132	0.0312	1.2444	0.3252	0.0296	0.3548		1,746.409 2	1,746.409 2	0.0961		1,748.812 4

Valley Center 57+, M - San Diego County, Winter

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1262	3.1357	0.9227	6.2600e-003	0.1531	0.0239	0.1769	0.0441	0.0228	0.0669		669.8980	669.8980	0.0602		671.4021
Worker	0.5646	0.4237	3.8818	0.0108	1.0602	7.3400e-003	1.0675	0.2811	6.7700e-003	0.2879		1,076.511 2	1,076.511 2	0.0360		1,077.410 3
Total	0.6908	3.5594	4.8045	0.0171	1.2132	0.0312	1.2444	0.3252	0.0296	0.3548		1,746.409 2	1,746.409 2	0.0961		1,748.812 4

Valley Center 57+, M - San Diego County, Winter

3.4 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	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.1128	2.9537	0.8481	6.2000e-003	0.1531	0.0200	0.1731	0.0441	0.0191	0.0632		664.9137	664.9137	0.0581		666.3659
Worker	0.5222	0.3790	3.4948	0.0105	1.0602	7.2700e-003	1.0674	0.2811	6.7000e-003	0.2878		1,043.9968	1,043.9968	0.0325		1,044.8094
Total	0.6349	3.3327	4.3429	0.0167	1.2132	0.0273	1.2405	0.3252	0.0258	0.3511		1,708.9106	1,708.9106	0.0906		1,711.1754

Valley Center 57+, M - San Diego County, Winter

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1128	2.9537	0.8481	6.2000e-003	0.1531	0.0200	0.1731	0.0441	0.0191	0.0632		664.9137	664.9137	0.0581		666.3659
Worker	0.5222	0.3790	3.4948	0.0105	1.0602	7.2700e-003	1.0674	0.2811	6.7000e-003	0.2878		1,043.996 8	1,043.996 8	0.0325		1,044.809 4
Total	0.6349	3.3327	4.3429	0.0167	1.2132	0.0273	1.2405	0.3252	0.0258	0.3511		1,708.910 6	1,708.910 6	0.0906		1,711.175 4

Valley Center 57+, M - San Diego County, Winter

3.4 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	0.0923	2.6908	0.7624	6.1500e-003	0.1531	0.0128	0.1659	0.0441	0.0123	0.0563		660.3483	660.3483	0.0550		661.7231
Worker	0.4895	0.3422	3.1965	0.0101	1.0602	7.1500e-003	1.0673	0.2811	6.5900e-003	0.2877		1,011.014 7	1,011.014 7	0.0294		1,011.749 4
Total	0.5818	3.0329	3.9589	0.0163	1.2132	0.0200	1.2332	0.3252	0.0189	0.3441		1,671.362 9	1,671.362 9	0.0844		1,673.472 5

Valley Center 57+, M - San Diego County, Winter

3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	0.0923	2.6908	0.7624	6.1500e-003	0.1531	0.0128	0.1659	0.0441	0.0123	0.0563		660.3483	660.3483	0.0550		661.7231
Worker	0.4895	0.3422	3.1965	0.0101	1.0602	7.1500e-003	1.0673	0.2811	6.5900e-003	0.2877		1,011.014 7	1,011.014 7	0.0294		1,011.749 4
Total	0.5818	3.0329	3.9589	0.0163	1.2132	0.0200	1.2332	0.3252	0.0189	0.3441		1,671.362 9	1,671.362 9	0.0844		1,673.472 5

Valley Center 57+, M - San Diego County, Winter

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0755	2.4348	0.6917	6.0800e-003	0.1531	5.1100e-003	0.1582	0.0441	4.8900e-003	0.0490		654.2466	654.2466	0.0527		655.5641
Worker	0.4629	0.3112	2.9874	9.8000e-003	1.0602	7.0400e-003	1.0672	0.2811	6.4900e-003	0.2876		977.0169	977.0169	0.0271		977.6952
Total	0.5384	2.7460	3.6791	0.0159	1.2132	0.0122	1.2254	0.3252	0.0114	0.3366		1,631.2635	1,631.2635	0.0798		1,633.2593

Valley Center 57+, M - San Diego County, Winter

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0755	2.4348	0.6917	6.0800e-003	0.1531	5.1100e-003	0.1582	0.0441	4.8900e-003	0.0490		654.2466	654.2466	0.0527		655.5641
Worker	0.4629	0.3112	2.9874	9.8000e-003	1.0602	7.0400e-003	1.0672	0.2811	6.4900e-003	0.2876		977.0169	977.0169	0.0271		977.6952
Total	0.5384	2.7460	3.6791	0.0159	1.2132	0.0122	1.2254	0.3252	0.0114	0.3366		1,631.2635	1,631.2635	0.0798		1,633.2593

Valley Center 57+, M - San Diego County, Winter

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0702	2.3036	0.6541	6.0200e-003	0.1531	4.4000e-003	0.1575	0.0441	4.2100e-003	0.0483		647.9925	647.9925	0.0509		649.2658
Worker	0.4396	0.2840	2.7749	9.4400e-003	1.0602	6.8900e-003	1.0671	0.2811	6.3400e-003	0.2875		941.1781	941.1781	0.0249		941.7994
Total	0.5098	2.5875	3.4290	0.0155	1.2132	0.0113	1.2245	0.3252	0.0106	0.3358		1,589.1706	1,589.1706	0.0758		1,591.0653

Valley Center 57+, M - San Diego County, Winter

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0702	2.3036	0.6541	6.0200e-003	0.1531	4.4000e-003	0.1575	0.0441	4.2100e-003	0.0483		647.9925	647.9925	0.0509		649.2658
Worker	0.4396	0.2840	2.7749	9.4400e-003	1.0602	6.8900e-003	1.0671	0.2811	6.3400e-003	0.2875		941.1781	941.1781	0.0249		941.7994
Total	0.5098	2.5875	3.4290	0.0155	1.2132	0.0113	1.2245	0.3252	0.0106	0.3358		1,589.1706	1,589.1706	0.0758		1,591.0653

Valley Center 57+, M - San Diego County, Winter

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0794	0.0513	0.5015	1.7100e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		170.0924	170.0924	4.4900e-003		170.2047
Total	0.0794	0.0513	0.5015	1.7100e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		170.0924	170.0924	4.4900e-003		170.2047

Valley Center 57+, M - San Diego County, Winter

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0794	0.0513	0.5015	1.7100e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		170.0924	170.0924	4.4900e-003		170.2047
Total	0.0794	0.0513	0.5015	1.7100e-003	0.1916	1.2400e-003	0.1928	0.0508	1.1500e-003	0.0520		170.0924	170.0924	4.4900e-003		170.2047

Valley Center 57+, M - San Diego County, Winter

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942
Total	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942

Valley Center 57+, M - San Diego County, Winter

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942
Total	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942

Valley Center 57+, M - San Diego County, Winter

3.6 Architectural Coating - 2023

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	34.6902					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	34.8819	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0857	0.0531	0.5272	1.8600e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		185.4037	185.4037	4.6600e-003		185.5201
Total	0.0857	0.0531	0.5272	1.8600e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		185.4037	185.4037	4.6600e-003		185.5201

Valley Center 57+, M - San Diego County, Winter

3.6 Architectural Coating - 2023

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	34.6902					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	34.8819	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0857	0.0531	0.5272	1.8600e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		185.4037	185.4037	4.6600e-003		185.5201
Total	0.0857	0.0531	0.5272	1.8600e-003	0.2171	1.3800e-003	0.2185	0.0576	1.2700e-003	0.0589		185.4037	185.4037	4.6600e-003		185.5201

4.0 Operational Detail - Mobile

Valley Center 57+, M - San Diego County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2240	11.8420	30.0384	0.1488	18.8800	0.0543	18.9344	5.0460	0.0506	5.0966		15,341.0177	15,341.0177	0.7079		15,358.7157
Unmitigated	2.2240	11.8420	30.0384	0.1488	18.8800	0.0543	18.9344	5.0460	0.0506	5.0966		15,341.0177	15,341.0177	0.7079		15,358.7157

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,310.00	2,404.71	2090.55	8,482,580	8,482,580
Total	2,310.00	2,404.71	2,090.55	8,482,580	8,482,580

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
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 57+, M - San Diego County, Winter

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	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
NaturalGas Unmitigated	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

Valley Center 57+, M - San Diego County, 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					
Single Family Housing	23496.4	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Total		0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

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					
Single Family Housing	23.4964	0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131
Total		0.2534	2.1654	0.9214	0.0138		0.1751	0.1751		0.1751	0.1751		2,764.2864	2,764.2864	0.0530	0.0507	2,780.7131

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 57+, M - San Diego County, 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	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.0803	4,926.0803	0.1264	0.0897	4,955.9662
Unmitigated	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.0803	4,926.0803	0.1264	0.0897	4,955.9662

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	0.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	0.5675	0.2190	18.9741	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3156	34.3156	0.0327		35.1322
Total	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.0803	4,926.0803	0.1264	0.0897	4,955.9662

Valley Center 57+, M - San Diego County, 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	0.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	0.5675	0.2190	18.9741	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3156	34.3156	0.0327		35.1322
Total	10.6268	4.0509	20.6047	0.0255		0.4155	0.4155		0.4155	0.4155	0.0000	4,926.0803	4,926.0803	0.1264	0.0897	4,955.9662

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Valley Center 57+, M - San Diego County, Winter

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

Valley Center 67, UM - San Diego County, Winter

Valley Center 67, UM
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	283.14	1000sqft	6.50	283,140.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Valley Center 67, UM - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	2/22/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	12/28/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	2/9/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/25/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	1/12/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/26/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	12/29/2018
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Valley Center 67, UM - San Diego County, 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	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Energy	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
Mobile	1.8735	9.9155	25.5498	0.1272	16.1760	0.0464	16.2224	4.3233	0.0432	4.3665		13,113.6353	13,113.6353	0.6029		13,128.7068
Total	8.5673	12.3920	27.6586	0.1421	16.1760	0.2347	16.4107	4.3233	0.2315	4.5548		16,085.1843	16,085.1843	0.6600	0.0545	16,117.9178

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	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Energy	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
Mobile	1.8735	9.9155	25.5498	0.1272	16.1760	0.0464	16.2224	4.3233	0.0432	4.3665		13,113.6353	13,113.6353	0.6029		13,128.7068
Total	8.5673	12.3920	27.6586	0.1421	16.1760	0.2347	16.4107	4.3233	0.2315	4.5548		16,085.1843	16,085.1843	0.6600	0.0545	16,117.9178

Valley Center 67, UM - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/26/2019	2/22/2019	5	20	
2	Building Construction	Building Construction	2/10/2018	12/28/2018	5	230	
3	Grading	Grading	1/13/2018	2/9/2018	5	20	
4	Paving	Paving	12/29/2018	1/25/2019	5	20	
5	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 424,710; Non-Residential Outdoor: 141,570; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 67, UM - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	24.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	119.00	46.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Valley Center 67, UM - San Diego County, Winter

3.2 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	lb/day										lb/day					
Archit. Coating	65.6177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	65.8841	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.1510	0.1096	1.0105	3.0300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		301.8786	301.8786	9.4000e-003		302.1136
Total	0.1510	0.1096	1.0105	3.0300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		301.8786	301.8786	9.4000e-003		302.1136

Valley Center 67, UM - San Diego County, Winter

3.2 Architectural Coating - 2019

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	65.6177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	65.8841	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.1510	0.1096	1.0105	3.0300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		301.8786	301.8786	9.4000e-003		302.1136
Total	0.1510	0.1096	1.0105	3.0300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		301.8786	301.8786	9.4000e-003		302.1136

Valley Center 67, UM - San Diego County, Winter

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2322	5.7697	1.6977	0.0115	0.2817	0.0439	0.3256	0.0811	0.0420	0.1231		1,232.612 4	1,232.612 4	0.1107		1,235.379 8
Worker	0.8096	0.6075	5.5655	0.0155	1.5200	0.0105	1.5305	0.4031	9.7000e-003	0.4128		1,543.431 7	1,543.431 7	0.0516		1,544.720 8
Total	1.0417	6.3772	7.2632	0.0270	1.8017	0.0544	1.8561	0.4842	0.0517	0.5359		2,776.044 1	2,776.044 1	0.1623		2,780.100 6

Valley Center 67, UM - San Diego County, Winter

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2322	5.7697	1.6977	0.0115	0.2817	0.0439	0.3256	0.0811	0.0420	0.1231		1,232.612 4	1,232.612 4	0.1107		1,235.379 8
Worker	0.8096	0.6075	5.5655	0.0155	1.5200	0.0105	1.5305	0.4031	9.7000e-003	0.4128		1,543.431 7	1,543.431 7	0.0516		1,544.720 8
Total	1.0417	6.3772	7.2632	0.0270	1.8017	0.0544	1.8561	0.4842	0.0517	0.5359		2,776.044 1	2,776.044 1	0.1623		2,780.100 6

Valley Center 67, UM - San Diego County, Winter

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947		2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127
Total	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127

Valley Center 67, UM - San Diego County, Winter

3.4 Grading - 2018

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127
Total	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127

Valley Center 67, UM - San Diego County, Winter

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432

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	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127
Total	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127

Valley Center 67, UM - San Diego County, Winter

3.5 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432

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	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127
Total	0.1020	0.0766	0.7015	1.9500e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		194.5502	194.5502	6.5000e-003		194.7127

Valley Center 67, UM - San Diego County, Winter

3.5 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	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0944	0.0685	0.6316	1.8900e-003	0.1916	1.3100e-003	0.1929	0.0508	1.2100e-003	0.0520		188.6741	188.6741	5.8700e-003		188.8210
Total	0.0944	0.0685	0.6316	1.8900e-003	0.1916	1.3100e-003	0.1929	0.0508	1.2100e-003	0.0520		188.6741	188.6741	5.8700e-003		188.8210

Valley Center 67, UM - San Diego County, Winter

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0944	0.0685	0.6316	1.8900e-003	0.1916	1.3100e-003	0.1929	0.0508	1.2100e-003	0.0520		188.6741	188.6741	5.8700e-003		188.8210
Total	0.0944	0.0685	0.6316	1.8900e-003	0.1916	1.3100e-003	0.1929	0.0508	1.2100e-003	0.0520		188.6741	188.6741	5.8700e-003		188.8210

Valley Center 67, UM - San Diego County, Winter

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

Valley Center 67, UM - San Diego County, Winter

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553
Total	0.1225	0.0919	0.8418	2.3400e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		233.4603	233.4603	7.8000e-003		233.6553

4.0 Operational Detail - Mobile

Valley Center 67, UM - San Diego County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8735	9.9155	25.5498	0.1272	16.1760	0.0464	16.2224	4.3233	0.0432	4.3665		13,113.63 53	13,113.63 53	0.6029		13,128.70 68
Unmitigated	1.8735	9.9155	25.5498	0.1272	16.1760	0.0464	16.2224	4.3233	0.0432	4.3665		13,113.63 53	13,113.63 53	0.6029		13,128.70 68

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,973.49	373.74	192.54	5,758,611	5,758,611
Total	1,973.49	373.74	192.54	5,758,611	5,758,611

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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 67, UM - San Diego County, Winter

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	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
NaturalGas Unmitigated	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451

Valley Center 67, UM - San Diego County, 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					
General Light Industry	25257.6	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
Total		0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451

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					
General Light Industry	25.2576	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
Total		0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 67, UM - San Diego County, 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	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Unmitigated	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660

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	0.3596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6300e-003	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Total	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660

Valley Center 67, UM - San Diego County, 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	0.3596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6300e-003	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Total	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Valley Center 67, UM - San Diego County, Winter

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

Valley Center 67, UM - San Diego County, Summer

Valley Center 67, UM
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	283.14	1000sqft	6.50	283,140.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Valley Center 67, UM - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	2/22/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	12/28/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	2/9/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	1/25/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	1/12/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/26/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	12/29/2018
tblProjectCharacteristics	OperationalYear	2018	2050
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Valley Center 67, UM - San Diego County, 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	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Energy	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
Mobile	1.9120	9.7294	26.5133	0.1336	16.1760	0.0463	16.2223	4.3233	0.0431	4.3664		13,756.8389	13,756.8389	0.6019		13,771.8851
Total	8.6058	12.2059	28.6221	0.1485	16.1760	0.2346	16.4106	4.3233	0.2314	4.5547		16,728.3878	16,728.3878	0.6590	0.0545	16,761.0961

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	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Energy	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
Mobile	1.9120	9.7294	26.5133	0.1336	16.1760	0.0463	16.2223	4.3233	0.0431	4.3664		13,756.8389	13,756.8389	0.6019		13,771.8851
Total	8.6058	12.2059	28.6221	0.1485	16.1760	0.2346	16.4106	4.3233	0.2314	4.5547		16,728.3878	16,728.3878	0.6590	0.0545	16,761.0961

Valley Center 67, UM - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/26/2019	2/22/2019	5	20	
2	Building Construction	Building Construction	2/10/2018	12/28/2018	5	230	
3	Grading	Grading	1/13/2018	2/9/2018	5	20	
4	Paving	Paving	12/29/2018	1/25/2019	5	20	
5	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 424,710; Non-Residential Outdoor: 141,570; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Valley Center 67, UM - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	24.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	119.00	46.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Valley Center 67, UM - San Diego County, Summer

3.2 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	lb/day										lb/day					
Archit. Coating	65.6177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	65.8841	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.1305	0.0976	1.0918	3.2300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		321.7068	321.7068	0.0100		321.9569
Total	0.1305	0.0976	1.0918	3.2300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		321.7068	321.7068	0.0100		321.9569

Valley Center 67, UM - San Diego County, Summer

3.2 Architectural Coating - 2019

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	65.6177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	65.8841	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.1305	0.0976	1.0918	3.2300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		321.7068	321.7068	0.0100		321.9569
Total	0.1305	0.0976	1.0918	3.2300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		321.7068	321.7068	0.0100		321.9569

Valley Center 67, UM - San Diego County, Summer

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.2223	5.7697	1.5261	0.0118	0.2817	0.0431	0.3248	0.0811	0.0413	0.1224		1,267.0753	1,267.0753	0.1037		1,269.6674
Worker	0.7008	0.5412	5.9885	0.0165	1.5200	0.0105	1.5305	0.4031	9.7000e-003	0.4128		1,644.7197	1,644.7197	0.0548		1,646.0887
Total	0.9231	6.3108	7.5146	0.0284	1.8017	0.0536	1.8553	0.4842	0.0510	0.5351		2,911.7950	2,911.7950	0.1585		2,915.7561

Valley Center 67, UM - San Diego County, Summer

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2223	5.7697	1.5261	0.0118	0.2817	0.0431	0.3248	0.0811	0.0413	0.1224		1,267.075 3	1,267.075 3	0.1037		1,269.667 4
Worker	0.7008	0.5412	5.9885	0.0165	1.5200	0.0105	1.5305	0.4031	9.7000e-003	0.4128		1,644.719 7	1,644.719 7	0.0548		1,646.088 7
Total	0.9231	6.3108	7.5146	0.0284	1.8017	0.0536	1.8553	0.4842	0.0510	0.5351		2,911.795 0	2,911.795 0	0.1585		2,915.756 1

Valley Center 67, UM - San Diego County, Summer

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947		2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902
Total	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902

Valley Center 67, UM - San Diego County, Summer

3.4 Grading - 2018

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769

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	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902
Total	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902

Valley Center 67, UM - San Diego County, Summer

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432

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	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902
Total	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902

Valley Center 67, UM - San Diego County, Summer

3.5 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432

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	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902
Total	0.0883	0.0682	0.7549	2.0800e-003	0.1916	1.3300e-003	0.1929	0.0508	1.2200e-003	0.0520		207.3176	207.3176	6.9000e-003		207.4902

Valley Center 67, UM - San Diego County, Summer

3.5 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	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0815	0.0610	0.6824	2.0200e-003	0.1916	1.3100e-003	0.1929	0.0508	1.2100e-003	0.0520		201.0668	201.0668	6.2500e-003		201.2231
Total	0.0815	0.0610	0.6824	2.0200e-003	0.1916	1.3100e-003	0.1929	0.0508	1.2100e-003	0.0520		201.0668	201.0668	6.2500e-003		201.2231

Valley Center 67, UM - San Diego County, Summer

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0815	0.0610	0.6824	2.0200e-003	0.1916	1.3100e-003	0.1929	0.0508	1.2100e-003	0.0520		201.0668	201.0668	6.2500e-003		201.2231
Total	0.0815	0.0610	0.6824	2.0200e-003	0.1916	1.3100e-003	0.1929	0.0508	1.2100e-003	0.0520		201.0668	201.0668	6.2500e-003		201.2231

Valley Center 67, UM - San Diego County, Summer

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

Valley Center 67, UM - San Diego County, Summer

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882
Total	0.1060	0.0819	0.9058	2.5000e-003	0.2299	1.5900e-003	0.2315	0.0610	1.4700e-003	0.0624		248.7811	248.7811	8.2800e-003		248.9882

4.0 Operational Detail - Mobile

Valley Center 67, UM - San Diego County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9120	9.7294	26.5133	0.1336	16.1760	0.0463	16.2223	4.3233	0.0431	4.3664		13,756.8389	13,756.8389	0.6019		13,771.8851
Unmitigated	1.9120	9.7294	26.5133	0.1336	16.1760	0.0463	16.2223	4.3233	0.0431	4.3664		13,756.8389	13,756.8389	0.6019		13,771.8851

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,973.49	373.74	192.54	5,758,611	5,758,611
Total	1,973.49	373.74	192.54	5,758,611	5,758,611

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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Valley Center 67, UM - San Diego County, Summer

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	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
NaturalGas Unmitigated	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451

Valley Center 67, UM - San Diego County, 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					
General Light Industry	25257.6	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
Total		0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451

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					
General Light Industry	25.2576	0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451
Total		0.2724	2.4762	2.0800	0.0149		0.1882	0.1882		0.1882	0.1882		2,971.4870	2,971.4870	0.0570	0.0545	2,989.1451

6.0 Area Detail

6.1 Mitigation Measures Area

Valley Center 67, UM - San Diego County, 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	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Unmitigated	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660

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	0.3596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6300e-003	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Total	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660

Valley Center 67, UM - San Diego County, 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	0.3596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6300e-003	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660
Total	6.4214	2.6000e-004	0.0287	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0620	0.0620	1.6000e-004		0.0660

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Valley Center 67, UM - San Diego County, Summer

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

Champagne Gardens Specific Plan, UM - San Diego County, Summer

Champagne Gardens Specific Plan, UM
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	31.00	Dwelling Unit	10.06	55,800.00	89
General Office Building	117.61	1000sqft	2.70	117,612.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG SFR Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Champagne Gardens Specific Plan, UM - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	6/14/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	4/19/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	2/23/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	5/17/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	1/12/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	5/18/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	2/24/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	4/20/2019
tblProjectCharacteristics	OperationalYear	2018	2050
tblVehicleTrips	ST_TR	9.91	10.41
tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00

2.0 Emissions Summary

Champagne Gardens Specific Plan, UM - San Diego County, 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	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668
Energy	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
Mobile	1.2287	6.6984	14.9864	0.0726	8.5321	0.0255	8.5576	2.2803	0.0238	2.3041		7,480.7808	7,480.7808	0.3390		7,489.2547
Total	52.7504	8.0552	76.3232	0.1813	8.5321	8.2826	16.8147	2.2803	8.2809	10.5612	860.9237	8,349.7370	9,210.6607	1.1475	0.0770	9,262.2786

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	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668
Energy	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
Mobile	1.2287	6.6984	14.9864	0.0726	8.5321	0.0255	8.5576	2.2803	0.0238	2.3041		7,480.7808	7,480.7808	0.3390		7,489.2547
Total	52.7504	8.0552	76.3232	0.1813	8.5321	8.2826	16.8147	2.2803	8.2809	10.5612	860.9237	8,349.7370	9,210.6607	1.1475	0.0770	9,262.2786

Champagne Gardens Specific Plan, UM - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	5/18/2019	6/14/2019	5	20	
2	Building Construction	Building Construction	2/24/2018	4/19/2019	5	300	
3	Grading	Grading	1/13/2018	2/23/2018	5	30	
4	Paving	Paving	4/20/2019	5/17/2019	5	20	
5	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 112,995; Residential Outdoor: 37,665; Non-Residential Indoor: 176,418; Non-Residential Outdoor: 58,806; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Champagne Gardens Specific Plan, UM - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	49.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.2 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	lb/day										lb/day					
Archit. Coating	44.7143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	44.9808	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
Total	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.2 Architectural Coating - 2019

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	44.7143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	44.9808	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
Total	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.1186	3.0303	0.8025	6.4100e-003	0.1557	0.0237	0.1794	0.0448	0.0227	0.0675		685.8367	685.8367	0.0544		687.1956
Worker	0.2086	0.1502	1.6774	4.4200e-003	0.4025	2.9000e-003	0.4054	0.1068	2.6700e-003	0.1094		439.6400	439.6400	0.0150		440.0161
Total	0.3272	3.1805	2.4799	0.0108	0.5582	0.0266	0.5848	0.1516	0.0253	0.1769		1,125.4767	1,125.4767	0.0694		1,127.2117

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1186	3.0303	0.8025	6.4100e-003	0.1557	0.0237	0.1794	0.0448	0.0227	0.0675		685.8367	685.8367	0.0544		687.1956
Worker	0.2086	0.1502	1.6774	4.4200e-003	0.4025	2.9000e-003	0.4054	0.1068	2.6700e-003	0.1094		439.6400	439.6400	0.0150		440.0161
Total	0.3272	3.1805	2.4799	0.0108	0.5582	0.0266	0.5848	0.1516	0.0253	0.1769		1,125.476 7	1,125.476 7	0.0694		1,127.211 7

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.3 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	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1059	2.8517	0.7362	6.3500e-003	0.1557	0.0198	0.1755	0.0448	0.0190	0.0638		680.8383	680.8383	0.0526		682.1524
Worker	0.1924	0.1343	1.5161	4.2800e-003	0.4025	2.8700e-003	0.4054	0.1068	2.6400e-003	0.1094		426.3978	426.3978	0.0136		426.7382
Total	0.2983	2.9860	2.2523	0.0106	0.5582	0.0227	0.5809	0.1516	0.0216	0.1732		1,107.236 1	1,107.236 1	0.0662		1,108.890 6

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1059	2.8517	0.7362	6.3500e-003	0.1557	0.0198	0.1755	0.0448	0.0190	0.0638		680.8383	680.8383	0.0526		682.1524
Worker	0.1924	0.1343	1.5161	4.2800e-003	0.4025	2.8700e-003	0.4054	0.1068	2.6400e-003	0.1094		426.3978	426.3978	0.0136		426.7382
Total	0.2983	2.9860	2.2523	0.0106	0.5582	0.0227	0.5809	0.1516	0.0216	0.1732		1,107.236 1	1,107.236 1	0.0662		1,108.890 6

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984
Total	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.4 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984
Total	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.5 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	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
Total	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
Total	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386
Total	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386

Champagne Gardens Specific Plan, UM - San Diego County, Summer

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386
Total	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386

4.0 Operational Detail - Mobile

Champagne Gardens Specific Plan, UM - San Diego County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2287	6.6984	14.9864	0.0726	8.5321	0.0255	8.5576	2.2803	0.0238	2.3041		7,480.7808	7,480.7808	0.3390		7,489.2547
Unmitigated	1.2287	6.6984	14.9864	0.0726	8.5321	0.0255	8.5576	2.2803	0.0238	2.3041		7,480.7808	7,480.7808	0.3390		7,489.2547

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,297.26	289.33	123.49	2,355,313	2,355,313
Single Family Housing	310.00	322.71	280.55	878,316	878,316
Total	1,607.26	612.04	404.04	3,233,629	3,233,629

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
General Office Building	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

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	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
NaturalGas Unmitigated	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

Champagne Gardens Specific Plan, UM - San Diego County, 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					
General Office Building	1124.56	0.0121	0.1103	0.0926	6.6000e-004		8.3800e-003	8.3800e-003		8.3800e-003	8.3800e-003		132.3017	132.3017	2.5400e-003	2.4300e-003	133.0879
Single Family Housing	3153.2	0.0340	0.2906	0.1237	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.9648	370.9648	7.1100e-003	6.8000e-003	373.1693
Total		0.0461	0.4008	0.2163	2.5100e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

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					
General Office Building	1.12456	0.0121	0.1103	0.0926	6.6000e-004		8.3800e-003	8.3800e-003		8.3800e-003	8.3800e-003		132.3017	132.3017	2.5400e-003	2.4300e-003	133.0879
Single Family Housing	3.1532	0.0340	0.2906	0.1237	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.9648	370.9648	7.1100e-003	6.8000e-003	373.1693
Total		0.0461	0.4008	0.2163	2.5100e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

6.0 Area Detail

6.1 Mitigation Measures Area

Champagne Gardens Specific Plan, UM - San Diego County, 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	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668
Unmitigated	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668

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	0.2450					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	47.4422	0.9265	58.5623	0.1061		8.2110	8.2110		8.2110	8.2110	860.9237	361.0588	1,221.9825	0.7945	0.0677	1,262.0247
Landscaping	0.0773	0.0295	2.5582	1.4000e-004		0.0142	0.0142		0.0142	0.0142		4.6309	4.6309	4.4500e-003		4.7421
Total	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668

Champagne Gardens Specific Plan, UM - San Diego County, 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	0.2450					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	47.4422	0.9265	58.5623	0.1061		8.2110	8.2110		8.2110	8.2110	860.9237	361.0588	1,221.9825	0.7945	0.0677	1,262.0247
Landscaping	0.0773	0.0295	2.5582	1.4000e-004		0.0142	0.0142		0.0142	0.0142		4.6309	4.6309	4.4500e-003		4.7421
Total	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

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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

Champagne Gardens Specific Plan, M - San Diego County, Summer

Champagne Gardens Specific Plan, M
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	31.00	Dwelling Unit	10.06	55,800.00	89
General Office Building	117.61	1000sqft	2.70	117,612.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

- Project Characteristics -
- Land Use -
- Construction Phase -
- Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)
- Vehicle Trips - Using SANDAG SFR Weekday rate
- Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)
- Woodstoves - Mitigation of 100% NG

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	6/14/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	4/19/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	2/23/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	5/17/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	1/12/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	5/18/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	2/24/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	4/20/2019
tblFireplaces	NumberGas	17.05	31.00
tblFireplaces	NumberNoFireplace	3.10	0.00
tblFireplaces	NumberWood	10.85	0.00
tblLandUse	BuildingSpaceSquareFeet	117,610.00	117,612.00
tblLandUse	LandUseSquareFeet	117,610.00	117,612.00
tblProjectCharacteristics	OperationalYear	2018	2050
tblVehicleTrips	ST_TR	9.91	10.41

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tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00
tblWoodstoves	NumberCatalytic	1.55	0.00
tblWoodstoves	NumberNoncatalytic	1.55	0.00

2.0 Emissions Summary

Champagne Gardens Specific Plan, M - San Diego County, 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	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138
Energy	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
Mobile	1.2287	6.6983	14.9862	0.0726	8.5320	0.0255	8.5575	2.2803	0.0238	2.3041		7,480.682 4	7,480.682 4	0.3390		7,489.156 2
Total	5.3683	7.6428	17.9795	0.0785	8.5320	0.1132	8.6452	2.2803	0.1115	2.3918	0.0000	8,645.050 4	8,645.050 4	0.3656	0.0213	8,660.527 1

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	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138
Energy	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
Mobile	1.2287	6.6983	14.9862	0.0726	8.5320	0.0255	8.5575	2.2803	0.0238	2.3041		7,480.682 4	7,480.682 4	0.3390		7,489.156 2
Total	5.3683	7.6428	17.9795	0.0785	8.5320	0.1132	8.6452	2.2803	0.1115	2.3918	0.0000	8,645.050 4	8,645.050 4	0.3656	0.0213	8,660.527 1

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	5/18/2019	6/14/2019	5	20	
2	Building Construction	Building Construction	2/24/2018	4/19/2019	5	300	
3	Grading	Grading	1/13/2018	2/23/2018	5	30	
4	Paving	Paving	4/20/2019	5/17/2019	5	20	
5	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 112,995; Residential Outdoor: 37,665; Non-Residential Indoor: 176,418; Non-Residential Outdoor: 58,806; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Champagne Gardens Specific Plan, M - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	49.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Champagne Gardens Specific Plan, M - San Diego County, Summer

3.2 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	lb/day										lb/day						
Archit. Coating	44.7143					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238			282.0423
Total	44.9808	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238			282.0423

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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003			87.0894
Total	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003			87.0894

Champagne Gardens Specific Plan, M - San Diego County, Summer

3.2 Architectural Coating - 2019

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	44.7143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	44.9808	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
Total	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894

Champagne Gardens Specific Plan, M - San Diego County, Summer

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.1186	3.0303	0.8025	6.4100e-003	0.1557	0.0237	0.1794	0.0448	0.0227	0.0675		685.8367	685.8367	0.0544		687.1956
Worker	0.2086	0.1502	1.6774	4.4200e-003	0.4025	2.9000e-003	0.4054	0.1068	2.6700e-003	0.1094		439.6400	439.6400	0.0150		440.0161
Total	0.3272	3.1805	2.4799	0.0108	0.5582	0.0266	0.5848	0.1516	0.0253	0.1769		1,125.4767	1,125.4767	0.0694		1,127.2117

Champagne Gardens Specific Plan, M - San Diego County, Summer

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1186	3.0303	0.8025	6.4100e-003	0.1557	0.0237	0.1794	0.0448	0.0227	0.0675		685.8367	685.8367	0.0544		687.1956
Worker	0.2086	0.1502	1.6774	4.4200e-003	0.4025	2.9000e-003	0.4054	0.1068	2.6700e-003	0.1094		439.6400	439.6400	0.0150		440.0161
Total	0.3272	3.1805	2.4799	0.0108	0.5582	0.0266	0.5848	0.1516	0.0253	0.1769		1,125.476 7	1,125.476 7	0.0694		1,127.211 7

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3.3 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	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.1059	2.8517	0.7362	6.3500e-003	0.1557	0.0198	0.1755	0.0448	0.0190	0.0638		680.8383	680.8383	0.0526		682.1524
Worker	0.1924	0.1343	1.5161	4.2800e-003	0.4025	2.8700e-003	0.4054	0.1068	2.6400e-003	0.1094		426.3978	426.3978	0.0136		426.7382
Total	0.2983	2.9860	2.2523	0.0106	0.5582	0.0227	0.5809	0.1516	0.0216	0.1732		1,107.2361	1,107.2361	0.0662		1,108.8906

Champagne Gardens Specific Plan, M - San Diego County, Summer

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1059	2.8517	0.7362	6.3500e-003	0.1557	0.0198	0.1755	0.0448	0.0190	0.0638		680.8383	680.8383	0.0526		682.1524
Worker	0.1924	0.1343	1.5161	4.2800e-003	0.4025	2.8700e-003	0.4054	0.1068	2.6400e-003	0.1094		426.3978	426.3978	0.0136		426.7382
Total	0.2983	2.9860	2.2523	0.0106	0.5582	0.0227	0.5809	0.1516	0.0216	0.1732		1,107.236 1	1,107.236 1	0.0662		1,108.890 6

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3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984
Total	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984

Champagne Gardens Specific Plan, M - San Diego County, Summer

3.4 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984
Total	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984

Champagne Gardens Specific Plan, M - San Diego County, Summer

3.5 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	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
Total	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342

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3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
Total	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342

Champagne Gardens Specific Plan, M - San Diego County, Summer

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386
Total	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386

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3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386
Total	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2287	6.6983	14.9862	0.0726	8.5320	0.0255	8.5575	2.2803	0.0238	2.3041		7,480.6824	7,480.6824	0.3390		7,489.1562
Unmitigated	1.2287	6.6983	14.9862	0.0726	8.5320	0.0255	8.5575	2.2803	0.0238	2.3041		7,480.6824	7,480.6824	0.3390		7,489.1562

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,297.24	289.32	123.49	2,355,273	2,355,273
Single Family Housing	310.00	322.71	280.55	878,316	878,316
Total	1,607.24	612.03	404.04	3,233,589	3,233,589

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
General Office Building	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

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	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
NaturalGas Unmitigated	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

Champagne Gardens Specific Plan, M - San Diego County, 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					
General Office Building	1124.56	0.0121	0.1103	0.0926	6.6000e-004		8.3800e-003	8.3800e-003		8.3800e-003	8.3800e-003		132.3017	132.3017	2.5400e-003	2.4300e-003	133.0879
Single Family Housing	3153.2	0.0340	0.2906	0.1237	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.9648	370.9648	7.1100e-003	6.8000e-003	373.1693
Total		0.0461	0.4008	0.2163	2.5100e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

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					
General Office Building	1.12456	0.0121	0.1103	0.0926	6.6000e-004		8.3800e-003	8.3800e-003		8.3800e-003	8.3800e-003		132.3017	132.3017	2.5400e-003	2.4300e-003	133.0879
Single Family Housing	3.1532	0.0340	0.2906	0.1237	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.9648	370.9648	7.1100e-003	6.8000e-003	373.1693
Total		0.0461	0.4008	0.2163	2.5100e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

6.0 Area Detail

6.1 Mitigation Measures Area

Champagne Gardens Specific Plan, M - San Diego County, 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	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138
Unmitigated	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138

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	0.2450					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0602	0.5142	0.2188	3.2800e-003		0.0416	0.0416		0.0416	0.0416	0.0000	656.4706	656.4706	0.0126	0.0120	660.3717
Landscaping	0.0773	0.0295	2.5582	1.4000e-004		0.0142	0.0142		0.0142	0.0142		4.6309	4.6309	4.4500e-003		4.7421
Total	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138

Champagne Gardens Specific Plan, M - San Diego County, 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	0.2450					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0602	0.5142	0.2188	3.2800e-003		0.0416	0.0416		0.0416	0.0416	0.0000	656.4706	656.4706	0.0126	0.0120	660.3717
Landscaping	0.0773	0.0295	2.5582	1.4000e-004		0.0142	0.0142		0.0142	0.0142		4.6309	4.6309	4.4500e-003		4.7421
Total	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Champagne Gardens Specific Plan, M - San Diego County, Summer

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

Champagne Gardens Specific Plan, UM - San Diego County, Winter

Champagne Gardens Specific Plan, UM
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	31.00	Dwelling Unit	10.06	55,800.00	89
General Office Building	117.61	1000sqft	2.70	117,612.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG SFR Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	6/14/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	4/19/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	2/23/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	5/17/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	1/12/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	5/18/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	2/24/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	4/20/2019
tblProjectCharacteristics	OperationalYear	2018	2050
tblVehicleTrips	ST_TR	9.91	10.41
tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00

2.0 Emissions Summary

Champagne Gardens Specific Plan, UM - San Diego County, 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	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668
Energy	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
Mobile	1.2011	6.7674	14.7201	0.0690	8.5321	0.0256	8.5577	2.2803	0.0238	2.3042		7,118.4918	7,118.4918	0.3425		7,127.0535
Total	52.7227	8.1242	76.0569	0.1777	8.5321	8.2827	16.8148	2.2803	8.2809	10.5612	860.9237	7,987.4480	8,848.3716	1.1511	0.0770	8,900.0775

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	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668
Energy	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
Mobile	1.2011	6.7674	14.7201	0.0690	8.5321	0.0256	8.5577	2.2803	0.0238	2.3042		7,118.4918	7,118.4918	0.3425		7,127.0535
Total	52.7227	8.1242	76.0569	0.1777	8.5321	8.2827	16.8148	2.2803	8.2809	10.5612	860.9237	7,987.4480	8,848.3716	1.1511	0.0770	8,900.0775

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	5/18/2019	6/14/2019	5	20	
2	Building Construction	Building Construction	2/24/2018	4/19/2019	5	300	
3	Grading	Grading	1/13/2018	2/23/2018	5	30	
4	Paving	Paving	4/20/2019	5/17/2019	5	20	
5	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 112,995; Residential Outdoor: 37,665; Non-Residential Indoor: 176,418; Non-Residential Outdoor: 58,806; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	49.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Champagne Gardens Specific Plan, UM - San Diego County, Winter

3.2 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	lb/day										lb/day					
Archit. Coating	44.7143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	44.9808	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
Total	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573

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3.2 Architectural Coating - 2019

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	44.7143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	44.9808	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
Total	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573

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3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.1236	3.0355	0.8878	6.2500e-003	0.1557	0.0241	0.1798	0.0448	0.0231	0.0679		668.6053	668.6053	0.0579		670.0517
Worker	0.2356	0.1687	1.5912	4.1500e-003	0.4025	2.9000e-003	0.4054	0.1068	2.6700e-003	0.1094		412.7404	412.7404	0.0143		413.0980
Total	0.3592	3.2042	2.4790	0.0104	0.5582	0.0270	0.5852	0.1516	0.0257	0.1773		1,081.3456	1,081.3456	0.0722		1,083.1496

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3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1236	3.0355	0.8878	6.2500e-003	0.1557	0.0241	0.1798	0.0448	0.0231	0.0679		668.6053	668.6053	0.0579		670.0517
Worker	0.2356	0.1687	1.5912	4.1500e-003	0.4025	2.9000e-003	0.4054	0.1068	2.6700e-003	0.1094		412.7404	412.7404	0.0143		413.0980
Total	0.3592	3.2042	2.4790	0.0104	0.5582	0.0270	0.5852	0.1516	0.0257	0.1773		1,081.345 6	1,081.345 6	0.0722		1,083.149 6

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3.3 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	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1104	2.8540	0.8163	6.1900e-003	0.1557	0.0202	0.1759	0.0448	0.0193	0.0641		663.5506	663.5506	0.0559		664.9486
Worker	0.2176	0.1508	1.4327	4.0200e-003	0.4025	2.8700e-003	0.4054	0.1068	2.6400e-003	0.1094		400.2877	400.2877	0.0129		400.6106
Total	0.3280	3.0048	2.2490	0.0102	0.5582	0.0231	0.5813	0.1516	0.0220	0.1736		1,063.838 3	1,063.838 3	0.0688		1,065.559 2

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3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1104	2.8540	0.8163	6.1900e-003	0.1557	0.0202	0.1759	0.0448	0.0193	0.0641		663.5506	663.5506	0.0559		664.9486
Worker	0.2176	0.1508	1.4327	4.0200e-003	0.4025	2.8700e-003	0.4054	0.1068	2.6400e-003	0.1094		400.2877	400.2877	0.0129		400.6106
Total	0.3280	3.0048	2.2490	0.0102	0.5582	0.0231	0.5813	0.1516	0.0220	0.1736		1,063.838 3	1,063.838 3	0.0688		1,065.559 2

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3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114
Total	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114

Champagne Gardens Specific Plan, UM - San Diego County, Winter

3.4 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114
Total	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114

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3.5 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	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
Total	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359

Champagne Gardens Specific Plan, UM - San Diego County, Winter

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
Total	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359

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3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503
Total	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503

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3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503
Total	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503

4.0 Operational Detail - Mobile

Champagne Gardens Specific Plan, UM - San Diego County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2011	6.7674	14.7201	0.0690	8.5321	0.0256	8.5577	2.2803	0.0238	2.3042		7,118.4918	7,118.4918	0.3425		7,127.0535
Unmitigated	1.2011	6.7674	14.7201	0.0690	8.5321	0.0256	8.5577	2.2803	0.0238	2.3042		7,118.4918	7,118.4918	0.3425		7,127.0535

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,297.26	289.33	123.49	2,355,313	2,355,313
Single Family Housing	310.00	322.71	280.55	878,316	878,316
Total	1,607.26	612.04	404.04	3,233,629	3,233,629

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Champagne Gardens Specific Plan, UM - San Diego County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
General Office Building	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

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	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
NaturalGas Unmitigated	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

Champagne Gardens Specific Plan, UM - San Diego County, 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					
General Office Building	1124.56	0.0121	0.1103	0.0926	6.6000e-004		8.3800e-003	8.3800e-003		8.3800e-003	8.3800e-003		132.3017	132.3017	2.5400e-003	2.4300e-003	133.0879
Single Family Housing	3153.2	0.0340	0.2906	0.1237	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.9648	370.9648	7.1100e-003	6.8000e-003	373.1693
Total		0.0461	0.4008	0.2163	2.5100e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

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					
General Office Building	1.12456	0.0121	0.1103	0.0926	6.6000e-004		8.3800e-003	8.3800e-003		8.3800e-003	8.3800e-003		132.3017	132.3017	2.5400e-003	2.4300e-003	133.0879
Single Family Housing	3.1532	0.0340	0.2906	0.1237	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.9648	370.9648	7.1100e-003	6.8000e-003	373.1693
Total		0.0461	0.4008	0.2163	2.5100e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

6.0 Area Detail

6.1 Mitigation Measures Area

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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	lb/day										lb/day					
Mitigated	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668
Unmitigated	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668

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	0.2450					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	47.4422	0.9265	58.5623	0.1061		8.2110	8.2110		8.2110	8.2110	860.9237	361.0588	1,221.9825	0.7945	0.0677	1,262.0247
Landscaping	0.0773	0.0295	2.5582	1.4000e-004		0.0142	0.0142		0.0142	0.0142		4.6309	4.6309	4.4500e-003		4.7421
Total	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668

Champagne Gardens Specific Plan, UM - San Diego County, 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	0.2450					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	47.4422	0.9265	58.5623	0.1061		8.2110	8.2110		8.2110	8.2110	860.9237	361.0588	1,221.9825	0.7945	0.0677	1,262.0247
Landscaping	0.0773	0.0295	2.5582	1.4000e-004		0.0142	0.0142		0.0142	0.0142		4.6309	4.6309	4.4500e-003		4.7421
Total	51.4755	0.9560	61.1205	0.1062		8.2252	8.2252		8.2252	8.2252	860.9237	365.6897	1,226.6133	0.7989	0.0677	1,266.7668

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Champagne Gardens Specific Plan, UM - San Diego County, Winter

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

Champagne Gardens Specific Plan, M - San Diego County, Winter

**Champagne Gardens Specific Plan, M
San Diego County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	31.00	Dwelling Unit	10.06	55,800.00	89
General Office Building	117.61	1000sqft	2.70	117,612.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2050
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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG SFR Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

Champagne Gardens Specific Plan, M - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	PhaseEndDate	12/31/2017	6/14/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	4/19/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	2/23/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	5/17/2019
tblConstructionPhase	PhaseEndDate	12/31/2017	1/12/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	5/18/2019
tblConstructionPhase	PhaseStartDate	1/1/2018	2/24/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	4/20/2019
tblFireplaces	NumberGas	17.05	31.00
tblFireplaces	NumberNoFireplace	3.10	0.00
tblFireplaces	NumberWood	10.85	0.00
tblLandUse	BuildingSpaceSquareFeet	117,610.00	117,612.00
tblLandUse	LandUseSquareFeet	117,610.00	117,612.00
tblProjectCharacteristics	OperationalYear	2018	2050
tblVehicleTrips	ST_TR	9.91	10.41

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tblVehicleTrips	SU_TR	8.62	9.05
tblVehicleTrips	WD_TR	9.52	10.00
tblWoodstoves	NumberCatalytic	1.55	0.00
tblWoodstoves	NumberNoncatalytic	1.55	0.00

2.0 Emissions Summary

Champagne Gardens Specific Plan, M - San Diego County, 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	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138
Energy	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
Mobile	1.2011	6.7673	14.7199	0.0690	8.5320	0.0256	8.5576	2.2803	0.0238	2.3041		7,118.3982	7,118.3982	0.3425		7,126.9598
Total	5.3406	7.7118	17.7133	0.0749	8.5320	0.1133	8.6452	2.2803	0.1115	2.3918	0.0000	8,282.7661	8,282.7661	0.3691	0.0213	8,298.3307

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	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138
Energy	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
Mobile	1.2011	6.7673	14.7199	0.0690	8.5320	0.0256	8.5576	2.2803	0.0238	2.3041		7,118.3982	7,118.3982	0.3425		7,126.9598
Total	5.3406	7.7118	17.7133	0.0749	8.5320	0.1133	8.6452	2.2803	0.1115	2.3918	0.0000	8,282.7661	8,282.7661	0.3691	0.0213	8,298.3307

Champagne Gardens Specific Plan, M - San Diego County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	5/18/2019	6/14/2019	5	20	
2	Building Construction	Building Construction	2/24/2018	4/19/2019	5	300	
3	Grading	Grading	1/13/2018	2/23/2018	5	30	
4	Paving	Paving	4/20/2019	5/17/2019	5	20	
5	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 112,995; Residential Outdoor: 37,665; Non-Residential Indoor: 176,418; Non-Residential Outdoor: 58,806; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Champagne Gardens Specific Plan, M - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	49.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.2 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	lb/day										lb/day						
Archit. Coating	44.7143					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238			282.0423
Total	44.9808	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238			282.0423

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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003			81.7573
Total	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003			81.7573

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.2 Architectural Coating - 2019

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	44.7143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	44.9808	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
Total	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.1236	3.0355	0.8878	6.2500e-003	0.1557	0.0241	0.1798	0.0448	0.0231	0.0679		668.6053	668.6053	0.0579		670.0517
Worker	0.2356	0.1687	1.5912	4.1500e-003	0.4025	2.9000e-003	0.4054	0.1068	2.6700e-003	0.1094		412.7404	412.7404	0.0143		413.0980
Total	0.3592	3.2042	2.4790	0.0104	0.5582	0.0270	0.5852	0.1516	0.0257	0.1773		1,081.3456	1,081.3456	0.0722		1,083.1496

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.3 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1236	3.0355	0.8878	6.2500e-003	0.1557	0.0241	0.1798	0.0448	0.0231	0.0679		668.6053	668.6053	0.0579		670.0517
Worker	0.2356	0.1687	1.5912	4.1500e-003	0.4025	2.9000e-003	0.4054	0.1068	2.6700e-003	0.1094		412.7404	412.7404	0.0143		413.0980
Total	0.3592	3.2042	2.4790	0.0104	0.5582	0.0270	0.5852	0.1516	0.0257	0.1773		1,081.345 6	1,081.345 6	0.0722		1,083.149 6

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.3 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	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1104	2.8540	0.8163	6.1900e-003	0.1557	0.0202	0.1759	0.0448	0.0193	0.0641		663.5506	663.5506	0.0559		664.9486
Worker	0.2176	0.1508	1.4327	4.0200e-003	0.4025	2.8700e-003	0.4054	0.1068	2.6400e-003	0.1094		400.2877	400.2877	0.0129		400.6106
Total	0.3280	3.0048	2.2490	0.0102	0.5582	0.0231	0.5813	0.1516	0.0220	0.1736		1,063.838 3	1,063.838 3	0.0688		1,065.559 2

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1104	2.8540	0.8163	6.1900e-003	0.1557	0.0202	0.1759	0.0448	0.0193	0.0641		663.5506	663.5506	0.0559		664.9486
Worker	0.2176	0.1508	1.4327	4.0200e-003	0.4025	2.8700e-003	0.4054	0.1068	2.6400e-003	0.1094		400.2877	400.2877	0.0129		400.6106
Total	0.3280	3.0048	2.2490	0.0102	0.5582	0.0231	0.5813	0.1516	0.0220	0.1736		1,063.838 3	1,063.838 3	0.0688		1,065.559 2

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114
Total	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.4 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114
Total	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.5 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	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
Total	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
Total	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503
Total	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503

Champagne Gardens Specific Plan, M - San Diego County, Winter

3.6 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503
Total	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503

4.0 Operational Detail - Mobile

Champagne Gardens Specific Plan, M - San Diego County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2011	6.7673	14.7199	0.0690	8.5320	0.0256	8.5576	2.2803	0.0238	2.3041		7,118.3982	7,118.3982	0.3425		7,126.9598
Unmitigated	1.2011	6.7673	14.7199	0.0690	8.5320	0.0256	8.5576	2.2803	0.0238	2.3041		7,118.3982	7,118.3982	0.3425		7,126.9598

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,297.24	289.32	123.49	2,355,273	2,355,273
Single Family Housing	310.00	322.71	280.55	878,316	878,316
Total	1,607.24	612.03	404.04	3,233,589	3,233,589

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Champagne Gardens Specific Plan, M - San Diego County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
General Office Building	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

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	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572
NaturalGas Unmitigated	0.0461	0.4008	0.2163	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

Champagne Gardens Specific Plan, M - San Diego County, 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					
General Office Building	1124.56	0.0121	0.1103	0.0926	6.6000e-004		8.3800e-003	8.3800e-003		8.3800e-003	8.3800e-003		132.3017	132.3017	2.5400e-003	2.4300e-003	133.0879
Single Family Housing	3153.2	0.0340	0.2906	0.1237	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.9648	370.9648	7.1100e-003	6.8000e-003	373.1693
Total		0.0461	0.4008	0.2163	2.5100e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

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					
General Office Building	1.12456	0.0121	0.1103	0.0926	6.6000e-004		8.3800e-003	8.3800e-003		8.3800e-003	8.3800e-003		132.3017	132.3017	2.5400e-003	2.4300e-003	133.0879
Single Family Housing	3.1532	0.0340	0.2906	0.1237	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.9648	370.9648	7.1100e-003	6.8000e-003	373.1693
Total		0.0461	0.4008	0.2163	2.5100e-003		0.0319	0.0319		0.0319	0.0319		503.2665	503.2665	9.6500e-003	9.2300e-003	506.2572

6.0 Area Detail

6.1 Mitigation Measures Area

Champagne Gardens Specific Plan, M - San Diego County, 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	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138
Unmitigated	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138

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	0.2450					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0602	0.5142	0.2188	3.2800e-003		0.0416	0.0416		0.0416	0.0416	0.0000	656.4706	656.4706	0.0126	0.0120	660.3717
Landscaping	0.0773	0.0295	2.5582	1.4000e-004		0.0142	0.0142		0.0142	0.0142		4.6309	4.6309	4.4500e-003		4.7421
Total	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138

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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	lb/day										lb/day					
Architectural Coating	0.2450					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0602	0.5142	0.2188	3.2800e-003		0.0416	0.0416		0.0416	0.0416	0.0000	656.4706	656.4706	0.0126	0.0120	660.3717
Landscaping	0.0773	0.0295	2.5582	1.4000e-004		0.0142	0.0142		0.0142	0.0142		4.6309	4.6309	4.4500e-003		4.7421
Total	4.0935	0.5437	2.7771	3.4200e-003		0.0558	0.0558		0.0558	0.0558	0.0000	661.1015	661.1015	0.0170	0.0120	665.1138

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

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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
