

9103 Lantern Crest - Energy

Phase	Worker Trips/Day	Worker Trip Length	Worker VMT/Day	Phase Length (Days)	Work VMT (Total)	Vendor Trips (Total)	Vendor Trip Length	Vendor VMT (Total)	Hauling Trips	Hauling Trip Length	Hauling VMT (Total)	
Grading	14	10.8	151.20	23	3,477.60	0	7.3	0	0	20	0	
Form and Pour Concrete	14	10.8	151.20	20	3,024.00	5	7.3	36.5	0	20	0.00	
Building Construction	14	10.8	151.20	219	33,112.80	22	7.3	160.60	0	20	0	
Architectural Costings	7	10.8	75.60	98	0.00	0	7.3	0	0	20	0	
Paving	14	10.8	151.20	10	1,512.00	0	7.3	0	0	20	0	Total VMT
					41,126.40			197.10			0.00	41,323.50

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: Air District
 Region: San Diego County APCD
 Calendar Year: 2020
 Season: Annual
 Vehicle Classification: EMFAC2011 Categories
 Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	Fuel	SD Population	Pop %	SD VMT	Fuel Consumption (,000 gal/day)	SD Gallons/Day	Fuel Efficiency (mpg)	Total VMT	Total Fuel Consumption		
Workers													
San Diego County APCD	2020	LDA	GAS	1,305,532.46	70.3%	46,477,370.31	1,647.95	1,647,945.02	28.20	28,897.81	1,024.63	GAS	
San Diego County APCD	2020	LDA	DSL	14,881.07	0.8%	538,420.33	15.12	15,116.70	35.62	329.39	9.25	1,584.10	
San Diego County APCD	2020	LDT1	GAS	113,584.69	6.1%	3,527,546.68	152.36	152,357.09	23.15	2,514.18	108.59		
San Diego County APCD	2020	LDT1	DSL	175.28	0.0%	3,620.17	0.14	140.33	25.80	3.88	0.15	DSL	
San Diego County APCD	2020	LDT2	GAS	423,070.24	22.8%	15,153,592.89	729.61	729,614.16	20.77	9,364.61	400.89	10.00	
San Diego County APCD	2020	LDT2	DSL	746.42	0.0%	29,442.88	1.07	1,071.97	27.47	16.32	0.60		
Delivery/Hauling										Delivery Total VMT	Delivery Fuel Consumption	Hauling Total VMT	Hauling Fuel Consumption
San Diego County APCD	2020	T7 CAIRP	DSL	1,535.81	11.5%	320,805.92	54.64	54,639.07	5.87	22.35	3.86	0.00	0.00
San Diego County APCD	2020	T7 CAIRP construction	DSL	101.68	0.8%	24,144.94	4.11	4,109.54	5.88	1.70	0.26	0.00	0.00
San Diego County APCD	2020	T7 NNOOS	DSL	1,565.37	11.7%	397,799.74	63.32	63,318.44	6.28	23.39	3.68	0.00	0.00
San Diego County APCD	2020	T7 NOOS	DSL	620.85	4.6%	126,718.24	22.04	22,041.22	5.75	9.36	1.59	0.00	0.00
San Diego County APCD	2020	T7 POLA	DSL	239.52	1.8%	36,156.54	6.31	6,305.61	5.73	3.23	0.62	0.00	0.00
San Diego County APCD	2020	T7 Public	DSL	1,343.61	10.1%	30,810.26	6.32	6,315.14	4.88	19.32	4.06	0.00	0.00
San Diego County APCD	2020	T7 Single	DSL	1,570.12	11.8%	158,290.21	26.56	26,556.36	5.96	23.16	3.89	0.00	0.00
San Diego County APCD	2020	T7 single construction	DSL	656.11	4.9%	62,459.79	10.41	10,413.96	6.00	9.68	1.61	0.00	0.00
San Diego County APCD	2020	T7 SWCV	DSL	1,551.11	11.6%	71,432.95	28.55	28,550.17	2.50	22.38	9.14	0.00	0.00
San Diego County APCD	2020	T7 tractor	DSL	3,545.65	26.5%	478,144.83	78.20	78,203.26	6.11	52.30	8.55	0.00	0.00
San Diego County APCD	2020	T7 tractor construction	DSL	518.98	3.9%	46,568.39	7.84	7,835.72	5.94	7.66	1.29	0.00	0.00
San Diego County APCD	2020	T7 utility	DSL	113.48	0.8%	2,596.27	0.50	502.81	5.16	1.47	0.32	0.00	0.00
										197.10	36.87	0.00	0.00
												Total Diesel	36.87

9103 Lantern Crest - Energy

Phase	Phase Length (Days)	Equipment	Amount	Daily Usage Hours	Total Usage Hours	Horse Power	Load Factor	Fuel Used (Gallons)
Grading	23	Graders	1	8	184	187	0.41	728
	23	Tractors/Loaders/Backhoes	2	7	322	97	0.37	663
	23	Rubber Tired Dozer	1	8	184	247	0.40	939
Form and Pour Concret	20	Cranes	1	8	160	231	0.29	763
	20	Forklifts	2	7	280	89	0.20	286
	20	Generator Sets	1	8	160	84	0.74	571
	20	Graders	2	8	320	187	0.41	1,267
	20	Rubber Tired Dozer	1	8	160	247	0.40	816
	20	Scrapers	1	8	160	367	0.48	1,455
	20	Tractors/Loaders/Backhoes	3	7	420	97	0.37	865
	20	Welders	3	8	480	46	0.45	570
	Building Construction	219	Cranes	1	8	1,752	231	0.29
219		Forklifts	2	7	3,066	89	0.20	3,132
219		Generator Sets	1	8	1,752	84	0.74	3,125
219		Tractors/Loaders/Backhoes	1	6	1,314	97	0.37	2,707
219		Welders	3	8	5,256	46	0.45	6,244
Paving	10	Pavers	1	8	80	130	0.42	225
	10	Paving Equipment	1	8	80	132	0.36	196
	10	Rollers	2	8	160	80	0.38	279
	10	Cement and Mortar Mixers	1	8	80	9	0.56	23
	10	Tractors/Loaders/Backhoes	1	8	80	97	0.37	165
Architectural Coatings	98	Air Compressors	1	6	588	78	0.48	1,263
								32,341

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: Air District

Region: San Diego County APCD

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Project Daily VMT **725.00** VMT
 Project Annual VMT **264,625.00** VMT

Region	CalYr	VehClass	Fuel	SD Population	Pop %	SD VMT	SD Trips	Fuel Consumption (1,000 gal/day)	SD Gallons/Day	Fuel Efficiency	VMT	Gallons or kWh/Day	Gallons or kWh/Year
San Diego County APCD	2020	LDA	GAS	1305532.455	96.8%	46477370.31	8262282.729	1647.94502	1,647,945.02	28.20 mpg	701.45	24.87	9,077.95
San Diego County APCD	2020	LDA	DSL	14881.06949	1.1%	538420.3294	92356.3429	15.11675199	15,116.75	35.62 mpg	8.00	0.22	81.94
San Diego County APCD	2020	LDA	ELEC	28958.67663	2.1%	1411897.28	188628.0865	0	0.00	3.40 kWh/mile	15.56	4.88	1,670.32
						48,427,687.91	8,543,267.16	1,663.06	1,663,061.77		725.00	29.67	10,830.21
							5.80						

9103 Lantern Crest - Energy

LandUseType	LandUseSubType	LandUseUnitAmount	LandUseSizeMetric
Residential	Congregate Care (Assisted Living)	46	Dwelling Unit
Residential	Retirement Community	4	Dwelling Unit

EnergyUseLandUseSubType	T24E (kWh/size/year)	NT24E (kWh/size/year)	LightingElect (kWh/size/year)	T24NG (BTU/size/year)	NT24NG (BTU/size/year)
Congregate Care (Assisted Living)	209.39	3054.1	741.44	3248.74	4180
Retirement Community	260.86	3172.76	1001.1	7045.49	4180
Total/year	10,675.38	153,179.64	38,110.64	177,624.00	209,000.00
	kWh/year	kWh/year	kWh/year	BYU/year	BYU/year

Total Energy without GHG-1	
kwh/yr electricity	201,965.66
BTU/yr natural gas	386,624.00