

APPENDIX D

ENERGY OUTPUTS

Construction Schedule

*Construction Schedule input on data request form; construction schedule verified by Danny Hernandez on 10/28/21 (see screenshot below).

Phase Number	Phase Name	Phase Type	Start Date	End Date	Days/Week	Number of Days	Notes
1	Site Preparation	Site Preparation	12/1/2022	1/4/2023	6	30	Start date of 12/1/2022 and 6 days per week provided on data request form. Number of days are default provided by CalEEMod.
2	Grading	Grading	1/5/2023	4/1/2023	6	75	Number of days are default provided by CalEEMod.
3	Building Construction	Building Construction	4/2/2023	7/26/2026	6	1038	Extended number of days to complete the project by the end date of 12/1/2026. The default number of days to complete the building construction was 740.
4	Paving	Paving	7/27/2026	9/28/2026	6	55	Number of days are default provided by CalEEMod.
5	Architectural Coating	Architectural Coating	9/29/2026	12/1/2026	6	55	End date of 12/1/2026 provided on data request form. Number of days are default provided by CalEEMod.

total 1253 Ratio 0.833200319
1044

Off-road Equipment (from Input Sheet for CalEEMod_TTM 20426, tab 3. Construc

Construction Phase	Offroad Equipment Type	Amount	Usage (Hours/Day)	Total Usage (Hours/Day)	Total Usage (Hours/Project)	Horse Power	Load Factor	Fuel Rate (gal/hr)	Diesel Used (gal)
Site Preparation	Rubber Tired Dozers	3	8	24	720	247	0.40	5.05	3634.7
	Tractors/Loaders/Backhoes	4	8	32	960	97	0.37	1.83	1760.4
Grading	Excavators	2	8	16	1200	158	0.38	3.07	3681.3
	Graders	1	8	8	600	187	0.41	3.92	2350.5
	Rubber Tired Dozers	1	8	8	600	247	0.40	5.05	3028.9
	Scrapers	2	8	16	1200	367	0.48	9.00	10801.1
	Tractors/Loaders/Backhoes	2	8	16	1200	97	0.37	1.83	2200.6
	Cranes	1	7	7	7266	231	0.29	3.42	24870.4
Building Construction	Forklifts	3	8	24	24912	89	0.20	0.91	22657.2
	Generator Sets	1	8	8	8304	84	0.74	3.18	26374.0
	Tractors/Loaders/Backhoes	3	7	21	21798	97	0.37	1.83	39973.1
	Welders	1	8	8	8304	46	0.45	1.06	8782.8
Paving	Pavers	2	8	16	880	130	0.42	2.79	2455.0
	Paving Equipment	2	8	16	880	132	0.36	2.43	2136.7
	Rollers	2	8	16	880	80	0.38	1.55	1366.9
Architectural Coating	Air Compressors	1	6	6	330	78	0.48	1.91	631.3

Total Construction Gallons (Diesel) 156,704.75
total from TTM 20341 127092
Ratio 0.811028389

Notes:

Fuel flow rate calculated based on the values in the table below; Fuel Flow Rate = horsepower (hp) x BSFC / HHV x Load Factor

Calculation table used to calculate the fuel flow rate

Fuel	BSFC (Btu/hp-hr)	HHV (Btu/gal)	Value	Units
Diesel	7,000	137,000	0.0511	gal/hp-hr

*Fuel usage rate calculation based on the following:

BSFC = 7,000 BTU/hp-hr (Source: AP-42, Section 3.3 Gasoline and Diesel Industrial Engines, Table 3.3.1)

HHV (diesel) = 137,000 BTU/gal (Source: AP-42, Appendix A - Miscellaneous Data and Conversion Factors)

TTM 20426 - Operational Fuel Consumption and Energy Consumption from Vehicle Flots (based on EMFAC2021 (v1.0.2) factors)

Total VMT from CalEEMod Output File for TTM 20426 = 3,708,629 miles/year
 Total Fuel Consumption for TTM 20426 (including Gasoline, Diesel, Natural Gas) = 145,319 gallons/year 0.025% Percent of total for MDAQMD
 Total Energy Consumption for TTM 20426 from Electric Vehicles and Plug in Hybrid Vehicles = 77,287 kwh/year 0.032% Percent of total for MDAQMD
 Total Fuel Consumption in MDAQMD (including Gasoline, Diesel, Natural Gas) = 573,842,457 gallons/year
 Total Energy Consumption in MDAQMD from Electric Vehicles and Plug in Hybrid Vehicles = 241,309,168 kwh/year

Note: cVMT = represents conventional VMT which is powered by conventional fuel, e.g. gasoline, diesel, or natural gas. eVMT = represents electric VMT, which is powered by battery or electricity. Total VMT = sum of cVMT and eVMT

Vehicle Category	Total VMT in MDAQMD for Vehicle Category (miles/day)	EMFAC2021 (v1.0.2) Data										TTM 20426 Data						
		Fuel Type	For Vlookup	cVMT per Vehicle Category & Fuel Type	eVMT per Vehicle Category & Fuel Type	Total VMT	% of VMT per Vehicle Category	% of cVMT per Vehicle Category	% of eVMT per Vehicle Category	Energy Consumption (kWh/mile)	Fuel Consumption (gal/mile)	TTM 20426 Vehicle Fleet Mix from CalEEMod	TTM 20426 Miles/year per Vehicle Category	Total VMT per Vehicle Category & Fuel Type	cVMT per Vehicle Category (mile/year)	eVMT per Vehicle Category (mile/year)	Fuel Consumption (gal/year)	Energy Consumption (kwh/year)
HHDT	3,328,127.12	Gasoline	HHDT-Gasoline	190.68	0.00	190.68	0.006%	100%	0%	0.000	0.238	2.25%	83,262	4.77	4.77	0.00	1.13	0.00
		Diesel	HHDT-Diesel	3282279.69	0.00	3282279.69	98.622%	100%	0%	0.000	0.153			82115.43	82115.43	0.00	12579.03	0.00
		Natural Gas	HHDT-Natural Gas	3008.32	0.00	3008.32	0.090%	100%	0%	0.000	0.162			75.26	75.26	0.00	12.18	0.00
		Electricity	HHDT-Electricity	0.00	42648.43	42648.43	1.281%	0%	100%	1.806	0.000			1066.97	0.00	1066.97	0.00	1926.70
LDA	14,947,090.65	Gasoline	LDA-Gasoline	13376421.80	0.00	13376421.80	89.492%	100%	0%	0.000	0.032	53.95%	2,000,883	1790626.59	1790626.59	0.00	58015.49	0.00
		Diesel	LDA-Diesel	27049.17	0.00	27049.17	0.181%	100%	0%	0.000	0.024			3620.92	3620.92	0.00	85.37	0.00
		Natural Gas	LDA-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	LDA-Electricity	0.00	1031814.63	1031814.63	6.903%	0%	100%	0.386	0.000			138123.24	0.00	138123.24	0.00	53326.97
LDT1	1,044,087.35	Gasoline	LDT1-Gasoline	1033874.62	0.00	1033874.62	99.022%	100%	0%	0.000	0.039	5.75%	213,395	211307.20	211307.20	0.00	8334.74	0.00
		Diesel	LDT1-Diesel	86.80	0.00	86.80	0.008%	100%	0%	0.000	0.041			17.74	17.74	0.00	0.73	0.00
		Natural Gas	LDT1-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	LDT1-Electricity	0.00	5453.53	5453.53	0.522%	0%	100%	0.386	0.000			1114.61	0.00	1114.61	0.00	430.33
LDT2	6,509,654.09	Gasoline	LDT2-Gasoline	6335872.54	0.00	6335872.54	97.330%	100%	0%	0.000	0.039	17.56%	651,258	633871.55	633871.55	0.00	24881.36	0.00
		Diesel	LDT2-Diesel	22609.59	0.00	22609.59	0.347%	100%	0%	0.000	0.030			2261.97	2261.97	0.00	66.96	0.00
		Natural Gas	LDT2-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	LDT2-Electricity	0.00	62722.53	62722.53	0.964%	0%	100%	0.386	0.000			6275.07	0.00	6275.07	0.00	2422.69
LHDT1	921,463.51	Gasoline	LHDT1-Gasoline	491372.56	0.00	491372.56	53.325%	100%	0%	0.000	0.032	2.68%	99,477	53046.10	53046.10	0.00	3767.52	0.00
		Diesel	LHDT1-Diesel	407108.50	0.00	407108.50	44.181%	100%	0%	0.000	0.048			43949.38	43949.38	0.00	2130.65	0.00
		Natural Gas	LHDT1-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	LHDT1-Electricity	0.00	22982.45	22982.45	2.494%	0%	100%	0.571	0.000			2481.07	0.00	2481.07	0.00	1417.90
LHDT2	252,413.10	Gasoline	LHDT2-Gasoline	63477.78	0.00	63477.78	25.148%	100%	0%	0.000	0.080	0.73%	27,158	6829.87	6829.87	0.00	547.85	0.00
		Diesel	LHDT2-Diesel	183342.97	0.00	183342.97	72.636%	100%	0%	0.000	0.058			19726.72	19726.72	0.00	1142.88	0.00
		Natural Gas	LHDT2-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	LHDT2-Electricity	0.00	5592.35	5592.35	2.216%	0%	100%	0.571	0.000			601.71	0.00	601.71	0.00	343.85
MCY	106,539.56	Gasoline	MCY-Gasoline	106539.56	0.00	106539.56	100.000%	100%	0%	0.000	0.024	2.68%	99,421	99420.93	99420.93	0.00	2407.17	0.00
		Diesel	MCY-Diesel	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Natural Gas	MCY-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	MCY-Electricity	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
MDV	4,485,965.72	Gasoline	MDV-Gasoline	4295824.84	0.00	4295824.84	95.761%	100%	0%	0.000	0.049	13.12%	486,617	465991.03	465991.03	0.00	22914.12	0.00
		Diesel	MDV-Diesel	67552.26	0.00	67552.26	1.506%	100%	0%	0.000	0.042			7327.75	7327.75	0.00	305.78	0.00
		Natural Gas	MDV-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	MDV-Electricity	0.00	67192.13	67192.13	1.498%	0%	100%	0.386	0.000			7288.69	0.00	7288.69	0.00	2814.04
MH	33,973.27	Gasoline	MH-Gasoline	23236.73	0.00	23236.73	68.397%	100%	0%	0.000	0.210	0.46%	17,186	11754.58	11754.58	0.00	2467.34	0.00
		Diesel	MH-Diesel	10736.54	0.00	10736.54	31.603%	100%	0%	0.000	0.095			5431.21	5431.21	0.00	518.60	0.00
		Natural Gas	MH-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	MH-Electricity	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
MHDT	247,275.24	Gasoline	MHDT-Gasoline	66862.83	0.00	66862.83	27.040%	100%	0%	0.000	0.188	0.65%	24,188	6540.31	6540.31	0.00	1230.73	0.00
		Diesel	MHDT-Diesel	172909.82	0.00	172909.82	69.926%	100%	0%	0.000	0.108			16913.49	16913.49	0.00	1826.17	0.00
		Natural Gas	MHDT-Natural Gas	546.41	0.00	546.41	0.221%	100%	0%	0.000	0.111			53.45	53.45	0.00	5.92	0.00
		Electricity	MHDT-Electricity	0.00	6956.18	6956.18	2.813%	0%	100%	1.071	0.000			680.43	0.00	680.43	0.00	728.41
OBUS	21,458.97	Gasoline	OBUS-Gasoline	15446.62	0.00	15446.62	71.982%	100%	0%	0.000	0.193	0.05%	1,743	1254.69	1254.69	0.00	242.15	0.00
		Diesel	OBUS-Diesel	5552.05	0.00	5552.05	25.873%	100%	0%	0.000	0.133			450.98	450.98	0.00	60.15	0.00
		Natural Gas	OBUS-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	OBUS-Electricity	0.00	460.30	460.30	2.145%	0%	100%	1.081	0.000			37.39	0.00	37.39	0.00	40.41
SBUS	22,203.02	Gasoline	SBUS-Gasoline	7048.84	0.00	7048.84	31.747%	100%	0%	0.000	0.107	0.09%	3,479	1104.39	1104.39	0.00	117.89	0.00
		Diesel	SBUS-Diesel	14829.41	0.00	14829.41	66.790%	100%	0%	0.000	0.131			2323.42	2323.42	0.00	304.23	0.00
		Natural Gas	SBUS-Natural Gas	0.00	0.00	0.00	0.000%	-	-	-	-			0.00	0.00	0.00	0.00	0.00
		Electricity	SBUS-Electricity	0.00	324.78	324.78	1.463%	0%	100%	1.156	0.000			50.89	0.00	50.89	0.00	58.84
UBUS	19,376.45	Gasoline	UBUS-Gasoline	4916.50	0.00	4916.50	25.374%	100%	0%	0.000	0.263	0.02%	567	143.97	143.97	0.00	37.93	0.00
		Diesel	UBUS-Diesel	125.21	0.00	125.21	0.646%	100%	0%	0.000	0.098			3.67	3.67	0.00	0.36	0.00
		Natural Gas	UBUS-Natural Gas	13845.93	0.00	13845.93	71.457%	100%	0%	0.000	0.229			405.46	405.46	0.00	92.96	0.00
		Electricity	UBUS-Electricity	0.00	488.82	488.82	2.523%	0%	100%	2.219	0.000			14.31	0.00	14.31	0.00	30.34

QA/QC Section	31,939,628.05	13.00	11.13	3.12	1.00	3,708,632.71	3,708,632.71	3,708,632.71	145,319.06	77,286.54
QA/QC Section	31,939,628.05	TRUE	13 categories	11.128	3.125	1.00	3,708,632.71	3,708,632.71	145,319.06	77,286.54
QA/QC Section	TRUE		TRUE	TRUE	TRUE	100%	TRUE	TRUE		

significantly more than raw CalEEMod output because the fleet mix % is just slightly over

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Air District

Region: Mojave Desert AQMD

Calendar Year: 2027

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

		1	2	3	4	5	6	7	63	64	65	66	67	68	69	70	71	72	73	1	
		Added for Vlookup	31939628.05																		
		ADDED																			
		ADDED																			
		ADDED																			
Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Combined name	Population	Total VMT	CVMT (miles/day)	EVMT (miles/day)	Trips	Energy Consumption (kWh/day)	Fuel Consumption (1,000)	Fuel Consumption (gallons/day)	Fuel Consumption (gallons/mile)	Energy Consumption (kWh/mile)					
Mojave Des	2027	HHDT	Aggregate	Aggregate	Gasoline	HHDT-Gasoline	1,995,4997	190,6786199	190,6786199	0	39,925958	0	0.04536	45.3573	0.238	0.000					
Mojave Des	2027	HHDT	Aggregate	Aggregate	Diesel	HHDT-Diesel	16,098,441	3282279.688	3282279.688	0	337260.34	0	502.80311	502803.1147	0.153	0.000					
Mojave Des	2027	HHDT	Aggregate	Aggregate	Electricity	HHDT-Electricity	235,7465	42548.43276	0	42648.4328	4886.6211	77013.09553	0.00000	0.00000	0.000	1.806					
Mojave Des	2027	HHDT	Aggregate	Aggregate	Natural Gas	HHDT-Natural Gas	433,32805	3008.319699	3008.319699	0	496.82566	0	0.48678	486.7786	0.162	0.000					
Mojave Des	2027	LDA	Aggregate	Aggregate	Gasoline	LDA-Gasoline	3,191,76.35	13376421.8	13376421.8	0	1474772.5	0	433.38999	433389.9851	0.032	0.000					
Mojave Des	2027	LDA	Aggregate	Aggregate	Diesel	LDA-Diesel	833,90978	27049.16879	27049.16879	0	3529.0968	0	0.63774	637.7398	0.024	0.000					
Mojave Des	2027	LDA	Aggregate	Aggregate	Electricity	LDA-Electricity	20898.197	1031814.627	0	1031814.63	103389.66	398365.6064	0.00000	0.00000	0.000	0.386					
Mojave Des	2027	LDA	Aggregate	Aggregate	Plug-in Hybr	LDA-Plug-in Hybr	10597.729	511805.0555	237816.8426	273988.213	43821.608	82752.60644	7.46699	7466.9919	0.031	0.302					
Mojave Des	2027	LDT1	Aggregate	Aggregate	Gasoline	LDT1-Gasoline	30144.298	1033874.623	1033874.623	0	129183.52	0	40.77985	40779.8464	0.039	0.000					
Mojave Des	2027	LDT1	Aggregate	Aggregate	Diesel	LDT1-Diesel	6,454,6578	86,80284201	86,80284201	0	17,940573	0	0.00358	3.5844	0.041	0.000					
Mojave Des	2027	LDT1	Aggregate	Aggregate	Electricity	LDT1-Electricity	108,6956	5453.530438	0	5453.53044	538.90989	2105.512853	0.00000	0.00000	0.000	0.386					
Mojave Des	2027	LDT1	Aggregate	Aggregate	Plug-in Hybr	LDT1-Plug-in Hyb	89,561686	4672.391555	1968.286074	2704.10548	370.33757	816.7204504	0.06212	62.1193	0.032	0.302					
Mojave Des	2027	LDT2	Aggregate	Aggregate	Gasoline	LDT2-Gasoline	152576.84	6335872.541	6335872.541	0	710222.34	0	248.70201	248702.0138	0.039	0.000					
Mojave Des	2027	LDT2	Aggregate	Aggregate	Diesel	LDT2-Diesel	517,42092	22609.59334	22609.59334	0	2467.3894	0	0.66933	669.3336	0.030	0.000					
Mojave Des	2027	LDT2	Aggregate	Aggregate	Electricity	LDT2-Electricity	1727.8805	62722.53396	0	62722.534	8714.73	24216.07488	0.00000	0.00000	0.000	0.386					
Mojave Des	2027	LDT2	Aggregate	Aggregate	Plug-in Hybr	LDT2-Plug-in Hyb	1783.5035	88449.4191	38885.89021	49563.5289	7374.7871	14969.66295	1.23176	1231.7621	0.032	0.302					
Mojave Des	2027	LHDT1	Aggregate	Aggregate	Gasoline	LHDT1-Gasoline	12944.26	491372.5639	491372.5639	0	192850.19	0	34.89899	34898.9858	0.071	0.000					
Mojave Des	2027	LHDT1	Aggregate	Aggregate	Diesel	LHDT1-Diesel	11040.852	407108.4969	407108.4969	0	138880.03	0	19.73645	19736.4504	0.048	0.000					
Mojave Des	2027	LHDT1	Aggregate	Aggregate	Electricity	LHDT1-Electricity	340,91104	22982.4538	0	22982.4538	4770.8546	13134.19672	0.00000	0.00000	0.000	0.571					
Mojave Des	2027	LHDT2	Aggregate	Aggregate	Gasoline	LHDT2-Gasoline	1717,0097	63477.77851	63477.77851	0	25580.886	0	5.09181	5091.8146	0.080	0.000					
Mojave Des	2027	LHDT2	Aggregate	Aggregate	Diesel	LHDT2-Diesel	4886,8409	183342.9683	183342.9683	0	61470.31	0	10.62210	10622.0993	0.058	0.000					
Mojave Des	2027	LHDT2	Aggregate	Aggregate	Electricity	LHDT2-Electricity	87,046572	5592.349731	0	5592.34973	1154.6424	3195.834943	0.00000	0.00000	0.000	0.571					
Mojave Des	2027	MCV	Aggregate	Aggregate	Gasoline	MCV-Gasoline	18537.681	106539.562	106539.562	0	37075.361	0	2.57952	2579.5219	0.024	0.000					
Mojave Des	2027	MDV	Aggregate	Aggregate	Gasoline	MDV-Gasoline	108587.25	4295824.841	4295824.841	0	493086.02	0	211.23808	211238.0800	0.049	0.000					
Mojave Des	2027	MDV	Aggregate	Aggregate	Diesel	MDV-Diesel	1718.2885	67552.26012	67552.26012	0	7826.3225	0	2.81888	2818.8792	0.042	0.000					
Mojave Des	2027	MDV	Aggregate	Aggregate	Electricity	MDV-Electricity	1856.3954	67192.12564	0	67192.1256	9354.4093	25941.70617	0.00000	0.00000	0.000	0.386					
Mojave Des	2027	MDV	Aggregate	Aggregate	Plug-in Hybr	MDV-Plug-in Hyb	1165.6431	55396.48949	24756.29838	30640.1911	4819.9341	9254.25094	0.79450	794.5015	0.032	0.302					
Mojave Des	2027	MH	Aggregate	Aggregate	Gasoline	MH-Gasoline	2657.1088	23236.73222	23236.73222	0	265.81716	0	4.87749	4877.4869	0.210	0.000					
Mojave Des	2027	MH	Aggregate	Aggregate	Diesel	MH-Diesel	1254.6007	10736.53956	10736.53956	0	125.46007	0	1.02519	1025.1853	0.095	0.000					
Mojave Des	2027	MHDT	Aggregate	Aggregate	Gasoline	MHDT-Gasoline	902,64009	66862.82776	66862.82776	0	18060.023	0	12.58201	12582.0090	0.188	0.000					
Mojave Des	2027	MHDT	Aggregate	Aggregate	Diesel	MHDT-Diesel	3055.1812	172909.8171	172909.8171	0	40497.685	0	18.66929	18669.2896	0.108	0.000					
Mojave Des	2027	MHDT	Aggregate	Aggregate	Electricity	MHDT-Electricity	92,660257	6956.18245	0	6956.18225	1353.3959	7446.702924	0.00000	0.00000	0.000	1.071					
Mojave Des	2027	MHDT	Aggregate	Aggregate	Natural Gas	MHDT-Natural Gas	12,184305	546.4104338	546.4104338	0	62.505484	0	0.06054	60.5353	0.111	0.000					
Mojave Des	2027	OBUS	Aggregate	Aggregate	Gasoline	OBUS-Gasoline	265,13969	15446.61943	15446.61943	0	5304.9148	0	2.98109	2981.0921	0.193	0.000					
Mojave Des	2027	OBUS	Aggregate	Aggregate	Diesel	OBUS-Diesel	87,80814	5552.047232	5552.047232	0	1046.5913	0	0.74047	740.4736	0.133	0.000					
Mojave Des	2027	OBUS	Aggregate	Aggregate	Electricity	OBUS-Electricity	3,774,473	460.3011599	0	460.30116	75.479125	497.532319	0.00000	0.00000	0.000	1.081					
Mojave Des	2027	SBUS	Aggregate	Aggregate	Gasoline	SBUS-Gasoline	108,90303	7048.83572	7048.83572	0	435.61211	0	0.75241	752.4119	0.107	0.000					
Mojave Des	2027	SBUS	Aggregate	Aggregate	Diesel	SBUS-Diesel	649,35423	14829.40522	14829.40522	0	9402.6493	0	1.94177	1941.7707	0.131	0.000					
Mojave Des	2027	SBUS	Aggregate	Aggregate	Electricity	SBUS-Electricity	9,2845993	324.7778069	0	324.777807	115.29937	375.5410141	0.00000	0.00000	0.000	1.156					
Mojave Des	2027	UBUS	Aggregate	Aggregate	Gasoline	UBUS-Gasoline	52,520467	4916.496218	4916.496218	0	210.08187	0	1.29529	1295.2928	0.263	0.000					
Mojave Des	2027	UBUS	Aggregate	Aggregate	Diesel	UBUS-Diesel	1,4031526	125.2130251	125.2130251	0	5.6126106	0	0.01224	12.2427	0.098	0.000					
Mojave Des	2027	UBUS	Aggregate	Aggregate	Electricity	UBUS-Electricity	3,9388402	488.8184315	0	488.818432	15.755361	1035.963649	0.00000	0.00000	0.000	2.119					
Mojave Des	2027	UBUS	Aggregate	Aggregate	Natural Gas	UBUS-Natural Gas	104,91832	13845.92604	13845.92604	0	419.67329	0	3.17437	3174.37	0.229	0.000					

Total VMT for TTM 20426 3,708,629 miles

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 Air Quality Study - TTM 20426 Housing Development, Victorville, CA - Mojave Desert AQMD Air District, Summer
 EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Mitigated	4.0180	4.5770	33.4698	0.0736	8.0033	0.0589	8.0622	2.1330	0.0593	2.1883			7,493,204.9	0.3726	0.3592	7,609,571.7
Unmitigated	4.0180	4.5770	33.4698	0.0736	8.0033	0.0589	8.0622	2.1330	0.0593	2.1883			7,493,204.9	0.3726	0.3592	7,609,571.7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,321.60	1,335.60	1,197.00	3,708,629	3,708,629
Total	1,321.60	1,335.60	1,197.00	3,708,629	3,708,629

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.539521	0.057540	0.175606	0.131212	0.026823	0.007323	0.006522	0.022451	0.000470	0.000153	0.026808	0.000938	0.004634
Other Asphalt Surfaces	0.539521	0.057540	0.175606	0.131212	0.026823	0.007323	0.006522	0.022451	0.000470	0.000153	0.026808	0.000938	0.004634
Other Non-Asphalt Surfaces	0.539521	0.057540	0.175606	0.131212	0.026823	0.007323	0.006522	0.022451	0.000470	0.000153	0.026808	0.000938	0.004634
Single Family Housing	0.539521	0.057540	0.175606	0.131212	0.026823	0.007323	0.006522	0.022451	0.000470	0.000153	0.026808	0.000938	0.004634

File	Categories	Fleet mix
LDA	LDA	0.539521
LDT1	LDT1	0.05754
LDT2	LDT2	0.175606
MDV	MDV	0.131212
LHD1	LHDT1	0.026823
LHD2	LHDT2	0.007323
MHD	MHDT	0.006522
HHD	HHDT	0.022451
OBUS	OBUS	0.00047
UBUS	UBUS	0.000153
MCY	MCY	0.026808
SBUS	SBUS	0.000938
MH	MH	0.004634

1.000001

