

Fallbrook Point Project Construction On-road Fuel Use

Construction Phase	worker trips	Worker Miles/trip	Days	Worker Miles
Demo	13	14.7	20	3,822
Site Prep	8	14.7	10	1,176
Grade	15	14.7	20	4,410
Construction	83	14.7	230	280,623
Paving	15	14.7	20	4,410
Painting	17	14.7	20	4,998
Total Worker Miles				299,439
	EMFAC 2022	Gasoline	Avg. miles/gal	25.61
Worker Fuel Use			Total gallons	11,692

Construction Phase	Vendor Trips	Vendor Miles/trip	Days	Vendor Miles
Demo	0	6.9	20	
Site Prep	0	6.9	10	
Grade	0	6.9	70	
Construction	33	6.9	547	124,552
Paving	0	6.9	70	
Painting	0	6.9	70	
Total Vendor Miles				124,552
	EMFAC 2022	Diesel	Avg. miles/gal	10.24
Vendor Fuel Use			Total gallons	12,163

Construction Phase	Haul Trips	Haul Miles/trip		Haul Miles
Demo	593	20		11,860
Grade	1,312	20		26,240
Total Hauling Miles				38,100
	EMFAC 2022	Diesel HHDT Only (T7 tractor construction)	Avg. miles/gal	6.62
Hauling Fuel Use			Total gallons	5,755

Construction Phase	Equipment	Qty	Hrs/day	HP	Load Factor	#Days	HP hr
Demo	Concrete Saw	1	8	81	0.73	20	9,461
	Dozer	2	8	247	0.4	20	31,616
	Loader	1	6	203	0.36	20	8,770
	Excavators	1	8	158	0.38	20	9,606
Site Preparation	Dozer	1	8	247	0.4	10	7,904
	Loader/Backhoe	2	8	97	0.37	10	5,742
Grading	Excavators	1	8	158	0.38	20	9,606
	Grader	1	8	187	0.41	20	12,267
	Dozer	1	8	247	0.4	20	15,808
	Loader/Backhoe	3	8	97	0.37	20	17,227
Construction	Cranes	1	7	231	0.29	230	107,854
	Forklifts	3	8	89	0.2	230	98,256
	Gen Set	1	8	84	0.74	230	114,374
	Loader/Backhoe	3	7	97	0.37	230	173,349
	Welder	1	8	46	0.45	230	38,088
Paving	Pavers	2	8	130	0.42	20	17,472
	Paving Equipment	2	8	132	0.36	20	15,206
	Roller	2	8	80	0.38	20	9,728
Painting	Air Compressor	1	6	78	0.48	20	4,493
						Total HP	706,828

HP = horsepower

gallons of diesel fuel per HP----hour= 0.05

per SCAQMD CEQA Air Quality Handbook, Table A9--3-E

Gallons 35,341

Water Usage for fugitive dust control during construction

Water application rate = 3,020 gallons/acre/day

Grading days x 6.48	20
Acres	6.48
Gal/day	3020
LADWP kWhr/gallo	0.009727
kWhr	3,807

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: LOS ANGELES

Calendar Year: 2022

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	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Use
LOS ANGELES	2022	All Other Buses	Aggregated	Aggregated	DSL	2426.59845	146501.733	20383.4269	14.3421019
LOS ANGELES	2022	LDA	Aggregated	Aggregated	DSL	35580.7076	1405948.59	168445.761	29.7191528
LOS ANGELES	2022	LDT1	Aggregated	Aggregated	DSL	276.359292	6755.98135	979.170959	0.309653
LOS ANGELES	2022	LDT2	Aggregated	Aggregated	DSL	9029.02554	384253.17	44544.0159	11.0427917
LOS ANGELES	2022	LHD1	Aggregated	Aggregated	DSL	66438.773	2829556.45	835716.184	130.175266
LOS ANGELES	2022	LHD2	Aggregated	Aggregated	DSL	26821.5731	1100164.26	337381.648	56.1858244
LOS ANGELES	2022	MDV	Aggregated	Aggregated	DSL	19913.355	791156.805	97958.7449	29.4302125
LOS ANGELES	2022	MH	Aggregated	Aggregated	DSL	6142.76603	64185.8587	614.276603	6.09420068
LOS ANGELES	2022	Motor Coach	Aggregated	Aggregated	DSL	690.414784	93044.16	10080.0559	14.2840955
LOS ANGELES	2022	PTO	Aggregated	Aggregated	DSL	0	79209.0386	0	16.0541121
LOS ANGELES	2022	SBUS	Aggregated	Aggregated	DSL	3866.89773	122197.418	44623.4637	16.0638421
LOS ANGELES	2022	T6 Ag	Aggregated	Aggregated	DSL	12.1047996	101.966645	53.2611181	0.01218157
LOS ANGELES	2022	T6 CAIRP heavy	Aggregated	Aggregated	DSL	339.433258	67083.5226	4955.72557	5.8078138
LOS ANGELES	2022	T6 CAIRP small	Aggregated	Aggregated	DSL	181.720295	9464.3274	2653.1163	0.87587781
LOS ANGELES	2022	T6 instate commercial	Aggregated	Aggregated	DSL	2542.22473	170126.842	11493.2992	16.7121855
LOS ANGELES	2022	T6 instate commercial	Aggregated	Aggregated	DSL	8462.07731	450145.756	38256.7225	43.9584365
LOS ANGELES	2022	T6 instate heavy	Aggregated	Aggregated	DSL	10547.0741	1455514.97	121711.773	131.868535
LOS ANGELES	2022	T6 instate small	Aggregated	Aggregated	DSL	38737.1496	1972425.14	447021.336	190.794054
LOS ANGELES	2022	T6 OOS heavy	Aggregated	Aggregated	DSL	195.638099	38838.8121	2856.31624	3.3588366
LOS ANGELES	2022	T6 OOS small	Aggregated	Aggregated	DSL	104.382347	5388.10771	1523.98227	0.49952956
LOS ANGELES	2022	T6 Public	Aggregated	Aggregated	DSL	4527.37573	70713.4171	13733.0397	8.66083027
LOS ANGELES	2022	T6 utility	Aggregated	Aggregated	DSL	1014.3432	17105.5263	11664.9468	1.76607585
LOS ANGELES	2022	T7 Ag	Aggregated	Aggregated	DSL	5.19305155	102.893089	22.8494268	0.01852168
LOS ANGELES	2022	T7 CAIRP	Aggregated	Aggregated	DSL	6382.01949	1134600.88	93177.4846	164.652398

LOS ANGELE	2022	T7 CAIRP cor	Aggregated	Aggregated	DSL	677.691482	122203.588	3063.81684	16.7040882
LOS ANGELE	2022	T7 NNOOS	Aggregated	Aggregated	DSL	6908.61693	1383134.92	100865.807	190.163757
LOS ANGELE	2022	T7 NOOS	Aggregated	Aggregated	DSL	2520.5141	445789.868	36799.5059	66.3383045
LOS ANGELE	2022	T7 POLA	Aggregated	Aggregated	DSL	8290.29794	1076131.6	63006.2643	189.442814
LOS ANGELE	2022	T7 Public	Aggregated	Aggregated	DSL	5501.54345	111458.069	16688.0151	19.1802686
LOS ANGELE	2022	T7 Single	Aggregated	Aggregated	DSL	6004.21985	398912.551	69287.8646	60.9272672
LOS ANGELE	2022	T7 single cor	Aggregated	Aggregated	DSL	4339.81868	303164.625	19620.1515	44.8680139
LOS ANGELE	2022	T7 SWCV	Aggregated	Aggregated	DSL	1392.50165	56894.3017	5430.75643	28.0461909
LOS ANGELE	2022	T7 tractor	Aggregated	Aggregated	DSL	12303.6019	1664070.76	156255.744	233.28579
LOS ANGELE	2022	T7 tractor co	Aggregated	Aggregated	DSL	3625.32579	250084.125	16389.9569	37.8039796
LOS ANGELE	2022	T7 utility	Aggregated	Aggregated	DSL	407.175405	8267.09836	4682.51716	1.3123269
LOS ANGELE	2022	UBUS	Aggregated	Aggregated	DSL	37.1389	5105.1453	148.5556	0.80713293
							18239802.3		1781.56646
Avg. MPG		all diesel							10.24
Avg. MPG		For Hauling	T7 tractor construction						6.62

Fallbrook Point Project Operational Fuel Use

Light-duty (up to 8,500 lb GVWR)	% VMT	Heavy-duty (> 8,500 lb GVWR)	% VMT
LDA	0.545842	LHD1	0.01535
LDT1	0.044768	LHD2	0.006227
LDT2	0.205288	MHD	0.02046
MDV	0.119317	HHD	0.031333
		OBUS	0.002546
		UBUS	0.002133
		MCY	0.005184
		SBUS	0.000692
		MHD	0.000862
% of VMT	92%		8%

Vehicle Class	% VMT	Annual VMT	EMFAC 2022 Gal/year	Fuel
All		1,276,091		
light duty	0.92	1,174,004	25.61	45,842 gasoline
heavy-duty	0.08	102,087	10.24	9,969 diesel