

# Appendix H

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## Energy Calculations

## Energy Calculations Summary

### Operational Fuel Use Summary (with Valley Link)

Vehicle Class	Diesel Gallons	Gasoline Gallons
Passenger	105,045	13,238,728
Truck	4,720,403	10,633,160
Bus	242,636	252,429
Other	14,975	63,420
<b>Total</b>	<b>5,083,058</b>	<b>24,187,737</b>

1. Fleet mix calculated from CalEEMod default values.
2. Gallons per mile calculated from EMFAC 2014.
3. Annual VMT obtained from CalEEMod output file.

### Operational Fuel Use Summary (without Valley Link)

Vehicle Class	Diesel Gallons	Gasoline Gallons
Passenger	108,206	13,637,154
Truck	4,862,465	10,953,170
Bus	249,938	260,026
Other	15,426	65,328
<b>Total</b>	<b>5,236,035</b>	<b>24,915,678</b>

1. Fleet mix calculated from CalEEMod default values.
2. Gallons per mile calculated from EMFAC 2014.
3. Annual VMT obtained from CalEEMod output file.

### Operational Energy Consumption Summary

Land Use	Electricity (kWW/h)	Natural Gas (kBtu/year)	Electricity (MWW/h)	Natural Gas (therm/year)	therm/kbtu	100.000000
General Office	4,845,610	6,284,740	6,285	62,847		
Elementary School	2,383,260	3,182,960	3,183	31,830		
High School	2,383,260	3,182,960	3,183	31,830		
Other Asphalt Surfaces	-	-	-	-		
City Park	-	-	-	-		
Recreational Swimming Pool	-	-	-	-		
Apt Low Rise	1,549,970	2,609,555	2,610	26,096		
Apt Mid Rise	1,344,070	2,011,910	2,012	20,119		
Condo/Townhouse	2,438,020	5,208,500	5,209	52,085		
Single Family Housing	6,564,140	11,015,600	11,016	110,156		
Apt Mid Rise	569,724	852,809	853	8,528		
<b>Total</b>	<b>22,078,054</b>	<b>34,349,034</b>	<b>34,349</b>	<b>343,490</b>		

1. Electricity and natural gas consumption derived from CalEEMod
2. Gallons per mile calculated from EMFAC 2014.
3. Annual VMT obtained from CalEEMod output file.

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: San Joaquin

Calendar Year: 2040

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	CalYr	VehClass	Class	MdlYr	Speed	Fuel	Population VMT (mi/day)	Trips	
SAN JOAQUIN	2040	HHDT	Truck	Aggregated	Aggregated	GAS	3.313188	390.4008763	66.290259
SAN JOAQUIN	2040	HHDT	Truck	Aggregated	Aggregated	DSL	12393.26	1687894.183	142856.9605
SAN JOAQUIN	2040	LDA	Passenger	Aggregated	Aggregated	GAS	446350.7	14504635.68	2075050.75
SAN JOAQUIN	2040	LDA	Passenger	Aggregated	Aggregated	DSL	5427.222	179559.8133	25399.90892
SAN JOAQUIN	2040	LDT1	Truck	Aggregated	Aggregated	GAS	45639.45	1382006.576	208823.2579
SAN JOAQUIN	2040	LDT1	Truck	Aggregated	Aggregated	DSL	6.836597	198.8516412	30.71651851
SAN JOAQUIN	2040	LDT2	Truck	Aggregated	Aggregated	GAS	140592.2	4337261.708	647429.3541
SAN JOAQUIN	2040	LDT2	Truck	Aggregated	Aggregated	DSL	1398.597	44382.21208	6524.354885
SAN JOAQUIN	2040	LHDT1	Truck	Aggregated	Aggregated	GAS	7690.493	230698.541	114576.8811
SAN JOAQUIN	2040	LHDT1	Truck	Aggregated	Aggregated	DSL	7481.58	218859.765	94108.8698
SAN JOAQUIN	2040	LHDT2	Truck	Aggregated	Aggregated	GAS	1067.179	31884.77788	15899.37196
SAN JOAQUIN	2040	LHDT2	Truck	Aggregated	Aggregated	DSL	3028.805	85716.60119	38098.56142
SAN JOAQUIN	2040	MCY	Passenger	Aggregated	Aggregated	GAS	16567.33	101614.929	33134.66044
SAN JOAQUIN	2040	MDV	Truck	Aggregated	Aggregated	GAS	93321.03	2663540.366	423830.8361
SAN JOAQUIN	2040	MDV	Truck	Aggregated	Aggregated	DSL	3233.382	95676.12108	14938.5507
SAN JOAQUIN	2040	MH	Other	Aggregated	Aggregated	GAS	1156.224	10057.98135	115.6686981
SAN JOAQUIN	2040	MH	Other	Aggregated	Aggregated	DSL	627.3519	4650.6461	62.73518977
SAN JOAQUIN	2040	MHDT	Truck	Aggregated	Aggregated	GAS	860.6386	42137.73861	17219.65634
SAN JOAQUIN	2040	MHDT	Truck	Aggregated	Aggregated	DSL	8765.523	478627.2802	76933.0099
SAN JOAQUIN	2040	OBUS	Bus	Aggregated	Aggregated	GAS	206.9466	8786.802473	4140.587555
SAN JOAQUIN	2040	OBUS	Bus	Aggregated	Aggregated	DSL	130.9815	8757.296946	1268.76359
SAN JOAQUIN	2040	SBUS	Bus	Aggregated	Aggregated	GAS	137.3365	5889.333955	549.3458003
SAN JOAQUIN	2040	SBUS	Bus	Aggregated	Aggregated	DSL	504.8254	15921.11332	5825.615654
SAN JOAQUIN	2040	UBUS	Bus	Aggregated	Aggregated	GAS	21.14454	1925.078567	84.5781476
SAN JOAQUIN	2040	UBUS	Bus	Aggregated	Aggregated	DSL	45.71214	3173.52306	182.8485543

Project VMT (mi/yr) 977,889,715 From CalEEMod output

Project Mobile Emissions (MT/yr) 334,710 From CalEEMod output

Notes: CalEEMod output reflects scaled down VMT by 5

	Gas (gal)	Diesel (gal)
Passenger	<b>13,238,728</b>	<b>105,045</b>
Truck	<b>10,633,160</b>	<b>4,720,403</b>
Bus	<b>252,429</b>	<b>242,636</b>
Other	<b>63,420</b>	<b>14,975</b>
<b>Total</b>	<b>24,187,737</b>	<b>5,083,058</b>

Fuel_Consumption (1000 gal/day)	Fuel (gal/day)	mi/gal	CO2_RUNEX (tons/day)	CO2 (lb/day)	% of vehicle class EMFAC	% vehicle class CalEEMod	% vehicle class project	VMT by project vehicle class (mi/yr)	Gallons of fuel
0.070036417	70.03641738	5.57425538	0.660898186	1,322	0.000231241	0.026318	6.0858E-06	5951.24583	1067.630638
181.5647977	181564.7977	9.296373546	1888.047708	3,776,095	0.999768759	0.026318	0.026311914	25730150.27	2767762.09
339.7406616	339740.6616	42.69325789	3127.430985	6,254,862	0.9877719	0.578893	0.571814238	559171262.6	13097413.74
2.724806271	2724.806271	65.89819438	30.57353702	61,147	0.0122281	0.578893	0.007078762	6922248.152	105044.58
37.64484902	37644.84902	36.71170458	345.8883697	691,777	0.999856135	0.033999	0.033994109	33242489.29	905501.1109
0.005868029	5.868029085	33.88729646	0.065841894	132	0.000143865	0.033999	4.89128E-06	4783.134658	141.148311
117.1672895	117167.2895	37.01768408	1076.100176	2,152,200	0.989870877	0.21284	0.210684117	206025831.5	5565605.645
0.894092501	894.0925006	49.63939642	10.03211511	20,064	0.010129123	0.21284	0.002155883	2108215.451	42470.61009
22.51281969	22512.81969	10.24742987	210.4120454	420,824	0.51316712	0.010628	0.00545394	5333351.977	520457.5237
9.771028935	9771.028935	22.39884524	108.713925	217,428	0.48683288	0.010628	0.00517406	5059659.914	225889.3197
3.568772905	3568.772905	8.934381293	33.35412259	66,708	0.271125884	0.004325	0.001172619	1146692.499	128346.0445
4.328332168	4328.332168	19.80360977	47.96117289	95,922	0.728874116	0.004325	0.003152381	3082680.518	155662.5562
2.723355067	2723.355067	37.31240566	23.67006425	47,340	1	0.005392	0.005392	5272781.343	141314.4301
88.16061887	88160.61887	30.21236012	807.7137389	1,615,427	0.965324895	0.104491	0.100867764	98637548.61	3264807.788
2.527903773	2527.903773	37.84800755	28.36420351	56,728	0.034675105	0.104491	0.003623236	3543125.596	93614.58701
1.68534617	1685.34617	5.967902338	15.96414695	31,928	0.683815086	0.000566	0.000387039	378481.7888	63419.5681
0.39795076	397.9507601	11.68648628	4.465184343	8,930	0.316184914	0.000566	0.000178961	175003.7899	14974.88515
7.031193839	7031.193839	5.992970693	65.62684633	131,254	0.080915071	0.018736	0.001516025	1482505.035	247373.9839
40.78357664	40783.57664	11.73578484	450.8697578	901,740	0.919084929	0.018736	0.017219975	16839236.66	1434862.423
1.478361843	1478.361843	5.943607456	13.83200117	27,664	0.500840896	0.001852	0.000927557	907048.7823	152609.1333
0.894766224	894.7662236	9.787245779	9.719937244	19,440	0.499159104	0.001852	0.000924443	904002.9698	92365.41007
0.530478353	530.4783531	11.10193078	4.671050551	9,342	0.27002353	0.000598	0.000161474	157903.8329	14223.09651
1.604403093	1604.403093	9.92338733	16.28434289	32,569	0.72997647	0.000598	0.000436526	426874.2166	43016.98628
0.327673946	327.6739459	5.874982101	3.098504902	6,197	0.377569912	0.001362	0.00051425	502880.0011	85596.85672
0.410579235	410.5792352	7.729380318	4.606881445	9,214	0.622430088	0.001362	0.00084775	829005.7907	107253.8492

Gasoline Sum	24,187,737
Diesel Sum	5,083,058

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: San Joaquin

Calendar Year: 2040

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	CalYr	VehClass	Class	MdlYr	Speed	Fuel
SAN JOAQUIN	2040	HHDT	Truck	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	HHDT	Truck	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	LDA	Passenger	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	LDA	Passenger	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	LDT1	Truck	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	LDT1	Truck	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	LDT2	Truck	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	LDT2	Truck	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	LHDT1	Truck	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	LHDT1	Truck	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	LHDT2	Truck	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	LHDT2	Truck	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	MCY	Passenger	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	MDV	Truck	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	MDV	Truck	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	MH	Other	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	MH	Other	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	MHDT	Truck	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	MHDT	Truck	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	OBUS	Bus	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	OBUS	Bus	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	SBUS	Bus	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	SBUS	Bus	Aggregated	Aggregated	DSL
SAN JOAQUIN	2040	UBUS	Bus	Aggregated	Aggregated	GAS
SAN JOAQUIN	2040	UBUS	Bus	Aggregated	Aggregated	DSL

Project VMT (mi/yr) **1,007,319,760** From CalEEMod output

Project Mobile Emissions (MT/yr) **373,655** From CalEEMod output

Notes: CalEEMod output reflects scaled down VMT by 5

	Gas (gal)	Diesel (gal)
Passenger	<b>13,637,154</b>	<b>108,206</b>
Truck	<b>10,953,170</b>	<b>4,862,465</b>
Bus	<b>260,026</b>	<b>249,938</b>
Other	<b>65,328</b>	<b>15,426</b>
Total	<b>24,915,678</b>	<b>5,236,035</b>

Population	VMT (mi/d.Trips)	Fuel_Consumption (1000 gal/day)				CO2_RUNEX (tons/day)		CO2 (lb/day)	% of vehicle class EMFAC	% vehicle class CalEEMod	% vehicle class project	VMT by project (mi/yr)	Gallons of fuel
		gal/day	Fuel (gal/d.mi/gal)										
3.313188	390.4009	66.29026	0.070036	70.03642	5.574255	0.660898186	1,322	0.000231	0.026318	6.09E-06	6130.351336	1099.761478	
12393.26	1687894	142857	181.5648	181564.8	9.296374	1888.047708	3,776,095	0.999769	0.026318	0.026312	26504511.09	2851059.175	
446350.7	14504636	2075051	339.7407	339740.7	42.69326	3127.430985	6,254,862	0.987772	0.578893	0.571814	575999781.4	13491586.49	
5427.222	179559.8	25399.91	2.724806	2724.806	65.89819	30.57353702	61,147	0.012228	0.578893	0.007079	7130576.424	108205.9454	
45639.45	1382007	208823.3	37.64485	37644.85	36.7117	345.8883697	691,777	0.999856	0.033999	0.033994	34242937.43	932752.5873	
6.836597	198.8516	30.71652	0.005868	5.868029	33.8873	0.065841894	132	0.000144	0.033999	4.89E-06	4927.085317	145.3962349	
140592.2	4337262	647429.4	117.1673	117167.3	37.01768	1076.100176	2,152,200	0.989871	0.21284	0.210684	212226274.5	5733105.131	
1398.597	44382.21	6524.355	0.894093	894.0925	49.6394	10.03211511	20,064	0.010129	0.21284	0.002156	2171663.173	43748.78282	
7690.493	230698.5	114576.9	22.51282	22512.82	10.24743	210.4120454	420,824	0.513167	0.010628	0.005454	5493861.681	536120.9345	
7481.58	218859.8	94108.87	9.771029	9771.029	22.39885	108.713925	217,428	0.486833	0.010628	0.005174	5211932.728	232687.5637	
1067.179	31884.78	15899.37	3.568773	3568.773	8.934381	33.35412259	66,708	0.271126	0.004325	0.001173	1181202.742	132208.6783	
3028.805	85716.6	38098.56	4.328332	4328.332	19.80361	47.96117289	95,922	0.728874	0.004325	0.003152	3175455.22	160347.2931	
16567.33	101614.9	33134.66	2.723355	2723.355	37.31241	23.67006425	47,340	1	0.005392	0.005392	5431468.146	145567.3535	
93321.03	2663540	423830.8	88.16062	88160.62	30.21236	807.7137389	1,615,427	0.965325	0.104491	0.100868	101606091.4	3363063.694	
3233.382	95676.12	14938.55	2.527904	2527.904	37.84801	28.36420351	56,728	0.034675	0.104491	0.003623	3649757.605	96431.96147	
1156.224	10057.98	115.6687	1.685346	1685.346	5.967902	15.96414695	31,928	0.683815	0.000566	0.000387	389872.3739	65328.20945	
627.3519	4650.646	62.73519	0.397951	397.9508	11.68649	4.465184343	8,930	0.316185	0.000566	0.000179	180270.6102	15425.56127	
860.6386	42137.74	17219.66	7.031194	7031.194	5.992971	65.62684633	131,254	0.080915	0.018736	0.001516	1527121.713	254818.8188	
8765.523	478627.3	76933.01	40.78358	40783.58	11.73578	450.8697578	901,740	0.919085	0.018736	0.01722	17346021.31	1478045.274	
206.9466	8786.802	4140.588	1.478362	1478.362	5.943607	13.83200117	27,664	0.500841	0.001852	0.000928	934346.8366	157201.976	
130.9815	8757.297	1268.764	0.894766	894.7662	9.787246	9.719937244	19,440	0.499159	0.001852	0.000924	931209.3589	95145.18997	
137.3365	5889.334	549.3458	0.530478	530.4784	11.10193	4.671050551	9,342	0.270024	0.000598	0.000161	162656.0221	14651.14721	
504.8254	15921.11	5825.616	1.604403	1604.403	9.923387	16.28434289	32,569	0.729976	0.000598	0.000437	439721.1944	44311.60246	
21.14454	1925.079	84.57815	0.327674	327.6739	5.874982	3.098504902	6,197	0.37757	0.001362	0.000514	518014.4082	88172.93386	
45.71214	3173.523	182.8486	0.410579	410.5792	7.72938	4.606881445	9,214	0.62243	0.001362	0.000848	853955.1049	110481.7035	

Gasoline Sum	24,915,678
Diesel Sum	5,236,035

<b>Energy Calculations Summary</b>				
<b>Construction Fuel Usage Summary</b>				
	<b>Diesel</b>	<b>Gasoline</b>	<b>Diesel</b>	<b>Diesel</b>
<b>Construction Phase</b>	<b>Off-road Equipment (gallons)</b>	<b>On-road (gallons)</b>	<b>On-road (gallons)</b>	<b>Total</b>
2021	34,424	1,143	3,554	37,978
2022	53,481	3,701	3,473	56,954
2023	74,844	9,499	0	74,844
2024	38,908	22,789	26,954	65,862
2025	30,181	25,108	32,823	63,004
2026	30,181	24,398	32,432	62,613
2027	30,181	23,759	31,949	62,129
2028	30,065	23,098	31,359	61,424
2029	30,065	22,588	30,922	60,987
2030	30,181	22,220	30,607	60,788
2031	30,181	21,815	30,181	60,361
2032	30,296	21,540	29,851	60,148
2033	30,065	21,061	29,186	59,251
2034	30,065	20,785	28,719	58,784
2035	30,181	20,623	28,364	58,545
2036	30,296	20,492	28,040	58,336
2037	30,181	20,234	27,515	57,696
2038	29,382	22,687	18,504	47,886
2039	20,455	19,874	0	20,455
2040	2,168	14,672	0	2,168
<b>TOTAL</b>	<b>645,780</b>	<b>382,085</b>	<b>444,434</b>	<b>1,090,214</b>
<b>Total Gasoline</b>	<b>382,085</b>	<b>gallons</b>		
<b>Total Diesel</b>	<b>1,090,214</b>	<b>gallons</b>		

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Demolition	Excavators	3	8	158	0.38	197	14,193
Demolition	Concrete Industrial Saws	1	8	81	0.73	197	4,659
Demolition	Rubber Tired Dozers	2	8	247	0.40	197	15,571
<b>TOTAL</b>							<b>34,424</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Demolition	15	0	1250	197	2955	0	1,250.00	10.80	7.30	15.00	31914	0	18,750.00	1,143	3,554
<b>TOTAL</b>													<b>1,143</b>	<b>3,554</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Demolition**

Construction Start Date 4/1/2021  
 Construction End Date 12/31/2021  
 Total Work Days 197



**2022 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Demolition	Excavators	3	8	158	0.38	47	3,386
Demolition	Concrete Industrial Saws	1	8	81	0.73	47	1,112
Demolition	Rubber Tired Dozers	2	8	247	0.40	47	3,715
Site Prep	Tractors/Loaders /Backhoes	4	8	97	0.37	146	8,384
Site Prep	Rubber Tired Dozers	3	8	247	0.40	146	17,310
Grading	Excavators	2	8	158	0.38	68	3,266
Grading	Rubber Tired Dozers	1	8	247	0.40	68	2,687
Grading	Graders	1	8	187	0.41	68	2,085
Grading	Tractors/Loaders /Backhoes	2	8	97	0.37	68	1,952
Grading	Scrapers	2	8	367	0.48	68	9,583
<b>TOTAL</b>							<b>53,481</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Demolition	15	0	1250	47	705	0	1,250.00	10.80	7.30	15.00	7614	0	18,750.00	265	3,473
Site Preparation	16	0	0	146	2336	0	-	10.80	7.30	15.00	25228.8	0	-	879	0
Grading	100	0	0	68	6800	0	-	10.80	7.30	15.00	73440	0	-	2,558	0
<b>TOTAL</b>													<b>3,701</b>	<b>3,473</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Number of Days Adjusted as demolition would occur over 2 years, but not at same degree year round

**Demolition**

Construction Start Date 1/1/2022  
 Construction End Date 3/8/2022  
 Total Work Days 47

**Site Prep**

Construction Start Date 3/9/2022  
 Construction End Date 9/28/2022  
 Total Work Days 146

**Grading**

Construction Start Date 9/28/2022  
 Construction End Date 12/31/2022  
 Total Work Days 68

**2023 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Grading	Excavators	2	8	158	0.38	260	12,488
Grading	Rubber Tired Dozers	1	8	247	0.40	260	10,275
Grading	Graders	1	8	187	0.41	260	7,974
Grading	Tractors/Loaders/Back hoes	2	8	97	0.37	260	7,465
Grading	Scrapers	2	8	367	0.48	260	36,641
<b>TOTAL</b>							<b>74,844</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Daily Haul Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Grading	100	0	0	260	26,000	0	0	10.80	7.30	15.00	280,800.00	0.00	-	9,499	0
<b>TOTAL</b>													<b>9,499</b>	<b>0</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Grading**

Construction Sta            1/1/2023  
 Construction Enc        12/31/2023  
 Total Work Days            260

**2024 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Grading	Excavators	2	8	158	0.38	50	2,402
Grading	Rubber Tired Dozers	1	8	247	0.40	50	1,976
Grading	Graders	1	8	187	0.41	50	1,533
Grading	Tractors/Loaders/Ba ckhoes	2	8	97	0.37	50	1,436
Grading	Scrapers	2	8	367	0.48	50	7,046
Building Construction	Cranes	1	7	231	0.29	212	4,971
Building Construction	Forklifts	3	8	89	0.20	212	4,528
Building Construction	Generator Sets	1	8	84	0.74	212	5,271
Building Construction	Tractors/Loaders/Ba ckhoes	3	7	97	0.37	212	7,989
Building Construction	Welders	1	8	46	0.45	212	1,755
<b>TOTAL</b>							<b>38,908</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Grading	100	0	0	50	5000	0	-	10.80	7.30	15.00	54000	0	-	1,770	0
Building Construction	280	100	0	212	59360	21200	-	10.80	7.30	15.00	641088	154760	-	21,019	26,954
<b>TOTAL</b>													<b>22,789</b>	<b>26,954</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Grading**

Construction Start Date 1/1/2024

Construction End Date 3/8/2024

Total Work Days 50

**Building Construction**

Construction Start Date 3/9/2024

Construction End Date 12/31/2024

Total Work Days 212

**2025 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	261	6,120
Building Construction	Forklifts	3	8	89	0.20	261	5,575
Building Construction	Generator Sets	1	8	84	0.74	261	6,490
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	261	9,836
Building Construction	Welders	1	8	46	0.45	261	2,161
<b>TOTAL</b>							<b>30,181</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	261	73080	26100	-	10.80	7.30	15.00	789264	190530	-	25,108	32,823
<b>TOTAL</b>													<b>25,108</b>	<b>32,823</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Construction Star 1/1/2025  
 Construction End 12/31/2025  
 Total Work Days 261

**2026 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	261	6,120
Building Construction	Forklifts	3	8	89	0.20	261	5,575
Building Construction	Generator Sets	1	8	84	0.74	261	6,490
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	261	9,836
Building Construction	Welders	1	8	46	0.45	261	2,161
						<b>TOTAL</b>	<b>30,181</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	261	73080	26100	-	10.80	7.30	15.00	789264	190530	-	24,398	32,432
													<b>TOTAL</b>	<b>24,398</b>	<b>32,432</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Constructic	1/1/2026
Constructic	12/31/2026
Total Work	261

**2027 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	261	6,120
Building Construction	Forklifts	3	8	89	0.20	261	5,575
Building Construction	Generator Sets	1	8	84	0.74	261	6,490
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	261	9,836
Building Construction	Welders	1	8	46	0.45	261	2,161
						<b>TOTAL</b>	<b>30,181</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	261	73080	26100	-	10.80	7.30	15.00	789264	190530	-	23,759	31,949
													<b>TOTAL</b>	<b>23,759</b>	<b>31,949</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Constructic	1/1/2027
Constructic	12/31/2027
Total Work	261

**2028 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	260	6,096
Building Construction	Forklifts	3	8	89	0.20	260	5,554
Building Construction	Generator Sets	1	8	84	0.74	260	6,465
Building Construction	Tractors/Loaders /Backhoes	3	7	97	0.37	260	9,798
Building Construction	Welders	1	8	46	0.45	260	2,153
<b>TOTAL</b>							<b>30,065</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	260	72800	26000	-	10.80	7.30	15.00	786240	189800	-	23,098	31,359
<b>TOTAL</b>													<b>23,098</b>	<b>31,359</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Construction Start: 1/1/2028  
 Construction End: 12/31/2028  
 Total Work Days: 260

**2029 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	260	6,096
Building Construction	Forklifts	3	8	89	0.20	260	5,554
Building Construction	Generator Sets	1	8	84	0.74	260	6,465
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	260	9,798
Building Construction	Welders	1	8	46	0.45	260	2,153
						<b>TOTAL</b>	<b>30,065</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	260	72800	26000	-	10.80	7.30	15.00	786240	189800	-	22,588	30,922
													<b>TOTAL</b>	<b>22,588</b>	<b>30,922</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Constructic	1/1/2028
Constructic	12/31/2028
Total Work	260



**2030 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	261	6,120
Building Construction	Forklifts	3	8	89	0.20	261	5,575
Building Construction	Generator Sets	1	8	84	0.74	261	6,490
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	261	9,836
Building Construction	Welders	1	8	46	0.45	261	2,161
						<b>TOTAL</b>	<b>30,181</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	261	73080	26100	-	10.80	7.30	15.00	789264	190530	-	22,220	30,607
													<b>TOTAL</b>	<b>22,220</b>	<b>30,607</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Constructic	1/1/2030
Constructic	12/31/2030
Total Work	261

**2031 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	261	6,120
Building Construction	Forklifts	3	8	89	0.20	261	5,575
Building Construction	Generator Sets	1	8	84	0.74	261	6,490
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	261	9,836
Building Construction	Welders	1	8	46	0.45	261	2,161
<b>TOTAL</b>							<b>30,181</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	261	73080	26100	-	10.80	7.30	15.00	789264	190530	-	21,815	30,181
<b>TOTAL</b>													<b>21,815</b>	<b>30,181</b>	

**Building Construction**

Construction Start Date      1/1/2031  
 Construction End Date        12/31/2031  
 Total Work Days                261

**2032 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	262	6,143
Building Construction	Forklifts	3	8	89	0.20	262	5,596
Building Construction	Generator Sets	1	8	84	0.74	262	6,514
Building Construction	Tractors/Loaders /Backhoes	3	7	97	0.37	262	9,873
Building Construction	Welders	1	8	46	0.45	262	2,169
						<b>TOTAL</b>	<b>30,296</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	262	73360	26200	-	10.80	7.30	15.00	792288	191260	-	21,540	29,851
													<b>TOTAL</b>	<b>21,540</b>	<b>29,851</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Number of Days Adjusted as demolition would occur over 2 years, but not at same degree year round

**Building Construction**

Construction Start Date      1/1/2032  
 Construction End Date        12/31/2032  
 Total Work Days                 262

**2033 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	260	6,096
Building Construction	Forklifts	3	8	89	0.20	260	5,554
Building Construction	Generator Sets	1	8	84	0.74	260	6,465
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	260	9,798
Building Construction	Welders	1	8	46	0.45	260	2,153
<b>TOTAL</b>							<b>30,065</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	260	72800	26000	-	10.80	7.30	15.00	786240	189800	-	21,061	29,186
<b>TOTAL</b>													<b>21,061</b>	<b>29,186</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Number of Days Adjusted as demolition would occur over 2 years, but not at same degree year round

**Building Construction**

Construction Start Date      1/1/2033  
 Construction End Date      12/31/2033  
 Total Work Days                      260

**2034 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	260	6,096
Building Construction	Forklifts	3	8	89	0.20	260	5,554
Building Construction	Generator Sets	1	8	84	0.74	260	6,465
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	260	9,798
Building Construction	Welders	1	8	46	0.45	260	2,153
						<b>TOTAL</b>	<b>30,065</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	260	72800	26000	-	10.80	7.30	15.00	786240	189800	-	20,785	28,719
													<b>TOTAL</b>	<b>20,785</b>	<b>28,719</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Construction Start Date      1/1/2034  
 Construction End Date        12/31/2034  
 Total Work Days                260

**2035 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	261	6,120
Building Construction	Forklifts	3	8	89	0.20	261	5,575
Building Construction	Generator Sets	1	8	84	0.74	261	6,490
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	261	9,836
Building Construction	Welders	1	8	46	0.45	261	2,161
						<b>TOTAL</b>	<b>30,181</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	261	73080	26100	-	10.80	7.30	15.00	789264	190530	-	20,623	28,364
													<b>TOTAL</b>	<b>20,623</b>	<b>28,364</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Construction Start Date      1/1/2035  
 Construction End Date        12/31/2035  
 Total Work Days                261

**2036 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	262	6,143
Building Construction	Forklifts	3	8	89	0.20	262	5,596
Building Construction	Generator Sets	1	8	84	0.74	262	6,514
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	262	9,873
Building Construction	Welders	1	8	46	0.45	262	2,169
<b>TOTAL</b>							<b>30,296</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	262	73360	26200	-	10.80	7.30	15.00	792288	191260	-	20,492	28,040
<b>TOTAL</b>													<b>20,492</b>	<b>28,040</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Number of Days Adjusted as demolition would occur over 2 years, but not at same degree year round

**Building Construction**

Construction Start Date      1/1/2036  
 Construction End Date        12/31/2036  
 Total Work Days                      262

**2037 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	261	6,120
Building Construction	Forklifts	3	8	89	0.20	261	5,575
Building Construction	Generator Sets	1	8	84	0.74	261	6,490
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	261	9,836
Building Construction	Welders	1	8	46	0.45	261	2,161
						<b>TOTAL</b>	<b>30,181</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	261	73080	26100	-	10.80	7.30	15.00	789264	190530	-	20,234	27,515
													<b>TOTAL</b>	<b>20,234</b>	<b>27,515</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Construction Start Date      1/1/2037  
 Construction End Date        12/31/2037  
 Total Work Days                261



**2038 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7	231	0.29	178	4,173
Building Construction	Forklifts	3	8	89	0.20	178	3,802
Building Construction	Generator Sets	1	8	84	0.74	178	4,426
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	178	6,708
Building Construction	Welders	1	8	46	0.45	178	1,474
Paving	Pavers	2	8	130	0.42	83	3,625
Paving	Rollers	2	8	80	0.38	83	2,019
Paving	Paving Equipment	2	8	132	0.36	83	3,155
<b>TOTAL</b>							<b>29,382</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Building Construction	280	100	0	178	49840	17800	-	10.80	7.30	15.00	538272	129940	-	13,694	18,504
Paving	280	0	0	83	23240	0	-	10.80	7.30	15.00	250992	0	-	8,993	0
<b>TOTAL</b>													<b>22,687</b>	<b>18,504</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Building Construction**

Construction Start Date 1/1/2038

Construction End Date 9/7/2038

Total Work Days 178

**Paving**

Construction Start Date 9/8/2038

Construction End Date 12/31/2038

Total Work Days 83

**2039 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Paving	Pavers	2	8	130	0.42	185	8,081
Paving	Rollers	2	8	80	0.38	185	4,499
Paving	Paving Equipment	2	8	132	0.36	185	7,033
Architectural Coating	Air Compressors	1	6	78	0.48	75	842
<b>TOTAL</b>							<b>20,455</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Paving	280	0	0	185	51800	0	-	10.80	7.30	15.00	559440	0	-	14,141	0
Architectural Coating	280	0	0	75	21000	0	-	10.80	7.30	15.00	226800	0	-	5,733	0
<b>TOTAL</b>													<b>19,874</b>	<b>0</b>	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Paving**

Construction Start Date      1/1/2039  
 Construction End Date        9/16/2039  
 Total Work Days                185

**Architectural Coating**

Construction Start Date      9/17/2039  
 Construction End Date        12/31/2039  
 Total Work Days                75

**2040 Construction Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Architectural Coating	Air Compressors	1	6	78	0.48	193	2,168
						<b>TOTAL</b>	<b>2,168</b>

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

**Trips and VMT**

Phase Name	Daily Worker Trip	Daily Vendor Trip	Total Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Architectural Coating	280	0	0	193	54040	0	-	10.80	7.30	15.00	583632	0	-	14,672	0
													<b>TOTAL</b>	<b>14,672</b>	<b>0</b>

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

**Architectural Coating**

Construction Start Date      1/1/2040  
 Construction End Date        9/26/2040  
 Total Work Days                193

EMFAC MPG

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: San Joaquin

Year Range: 2021-2040

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	MdIYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per gallon	Diesel miles per gallon
San Joaquin	2021	LDA	Aggregated	Aggregated	GAS	286267.82	11331154.17	1340711.479	369.880954	0.00	30.63	27.91	5.28
San Joaquin	2021	LDT1	Aggregated	Aggregated	GAS	29154.08	1025942.82	131402.2718	39.08987559	0.00	26.25		
San Joaquin	2021	LDT2	Aggregated	Aggregated	GAS	93274.269	3447688.028	430889.5144	142.9035653	0.00	24.13		
San Joaquin	2021	T7 tractor	Aggregated	Aggregated	DSL	416.68411	28942.36827	1883.812669	0.00	5.485850939	5.28		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	MdIYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2022	LDA	Aggregated	Aggregated	GAS	295571.82	11565576.62	1385544.919	367.6824609	0.00	31.46	28.71	5.40
San Joaquin	2022	LDT1	Aggregated	Aggregated	GAS	29833.739	1046839.725	134977.4437	38.82348445	0.00	26.96		
San Joaquin	2022	LDT2	Aggregated	Aggregated	GAS	95496.442	3493823.658	441577.9576	139.8458341	0.00	24.98		
San Joaquin	2022	T7 tractor	Aggregated	Aggregated	DSL	435.37451	30033.23271	1968.311225	0.00	5.563623093	5.40		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	MdIYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2023	LDA	Aggregated	Aggregated	GAS	304868.35	11794744.1	1429931.526	364.9020102	0.00	32.32	29.56	5.68
San Joaquin	2023	LDT1	Aggregated	Aggregated	GAS	30558.594	1068327.175	138721.805	38.5404167	0.00	27.72		
San Joaquin	2023	LDT2	Aggregated	Aggregated	GAS	97797.164	3543110.257	452601.2058	136.8911399	0.00	25.88		
San Joaquin	2023	T7 tractor	Aggregated	Aggregated	DSL	457.0192	31132.2877	2066.166016	0.00	5.484729186	5.68		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	MdIYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2024	LDA	Aggregated	Aggregated	GAS	314066.78	12010984.4	1473399.03	360.785503	0.00	33.29	30.50	5.74
San Joaquin	2024	LDT1	Aggregated	Aggregated	GAS	31312.579	1089448.414	142552.9341	38.14924827	0.00	28.56		
San Joaquin	2024	LDT2	Aggregated	Aggregated	GAS	100179.97	3593429.455	463891.9203	133.7677529	0.00	26.86		
San Joaquin	2024	T7 tractor	Aggregated	Aggregated	DSL	473.47184	32239.53326	2140.547769	0.00	5.615086596	5.74		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													

Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2025	LDA	Aggregated	Aggregated	GAS	323207.16	12208641.99	1516080.314	356.4038447	0.00	34.26	31.43	5.80
San Joaquin	2025	LDT1	Aggregated	Aggregated	GAS	32110.009	1109935.678	146519.9439	37.76947899	0.00	29.39		
San Joaquin	2025	LDT2	Aggregated	Aggregated	GAS	102634.08	3642479.758	475411.5181	130.8275419	0.00	27.84		
San Joaquin	2025	T7 tractor	Aggregated	Aggregated	DSL	482.65761	32755.72334	2182.07629	0.00	5.642872335	5.80		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2026	LDA	Aggregated	Aggregated	GAS	332359.31	12373426.18	1558470.246	351.4783233	0.00	35.20	32.35	5.87
San Joaquin	2026	LDT1	Aggregated	Aggregated	GAS	32946.595	1128011.797	150619.588	37.36385699	0.00	30.19		
San Joaquin	2026	LDT2	Aggregated	Aggregated	GAS	105179.14	3685174.55	487268.0437	127.9446766	0.00	28.80		
San Joaquin	2026	T7 tractor	Aggregated	Aggregated	DSL	487.20094	33125.06117	2202.616503	0.00	5.638557096	5.87		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2027	LDA	Aggregated	Aggregated	GAS	341500.41	12556849.02	1600440.888	347.7917823	0.00	36.10	33.22	5.96
San Joaquin	2027	LDT1	Aggregated	Aggregated	GAS	33815.841	1148256.693	154819.4674	37.1032122	0.00	30.95		
San Joaquin	2027	LDT2	Aggregated	Aggregated	GAS	107801.99	3735836.33	499363.2861	125.6883344	0.00	29.72		
San Joaquin	2027	T7 tractor	Aggregated	Aggregated	DSL	490.71796	33494.13263	2218.516807	0.00	5.61638837	5.96		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2028	LDA	Aggregated	Aggregated	GAS	350635.13	12735409.45	1642135.038	344.6465167	0.00	36.95	34.04	6.05
San Joaquin	2028	LDT1	Aggregated	Aggregated	GAS	34721.02	1168493.511	159129.7672	36.90930704	0.00	31.66		
San Joaquin	2028	LDT2	Aggregated	Aggregated	GAS	110521.92	3787693.99	511801.6414	123.7924812	0.00	30.60		
San Joaquin	2028	T7 tractor	Aggregated	Aggregated	DSL	491.55337	33862.9377	2222.293657	0.00	5.594906184	6.05		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2029	LDA	Aggregated	Aggregated	GAS	359666.09	12906264.4	1683196.677	341.9576582	0.00	37.74	34.81	6.14
San Joaquin	2029	LDT1	Aggregated	Aggregated	GAS	35647.031	1188355.748	163493.706	36.76690906	0.00	32.32		
San Joaquin	2029	LDT2	Aggregated	Aggregated	GAS	113262.43	3838645.136	524275.0336	122.1535087	0.00	31.42		
San Joaquin	2029	T7 tractor	Aggregated	Aggregated	DSL	493.20488	34231.47641	2229.76007	0.00	5.57700798	6.14		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2030	LDA	Aggregated	Aggregated	GAS	368565.59	13072318.41	1723541.12	339.7810424	0.00	38.47	35.52	6.22
San Joaquin	2030	LDT1	Aggregated	Aggregated	GAS	36584.019	1208039.25	167881.3787	36.67959649	0.00	32.93		
San Joaquin	2030	LDT2	Aggregated	Aggregated	GAS	115999.67	3888891.963	536669.6904	120.7615023	0.00	32.20		
San Joaquin	2030	T7 tractor	Aggregated	Aggregated	DSL	495.60763	34599.74873	2240.622832	0.00	5.558202987	6.22		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													

Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2031	LDA	Aggregated	Aggregated	GAS	377303.82	13232087.55	1763016.601	338.042161	0.00	39.14	36.18	6.31
San Joaquin	2031	LDT1	Aggregated	Aggregated	GAS	37507.303	1227173.365	172212.5789	36.62931453	0.00	33.50		
San Joaquin	2031	LDT2	Aggregated	Aggregated	GAS	118691.31	3937608.605	548835.5903	119.5741461	0.00	32.93		
San Joaquin	2031	T7 tractor	Aggregated	Aggregated	DSL	498.11481	35243.70786	2251.95769	0.00	5.582749659	6.31		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2032	LDA	Aggregated	Aggregated	GAS	385850.48	13384161.04	1801523.789	336.672698	0.00	39.75	36.78	6.41
San Joaquin	2032	LDT1	Aggregated	Aggregated	GAS	38458.465	1245955.452	176593.6632	36.62604917	0.00	34.02		
San Joaquin	2032	LDT2	Aggregated	Aggregated	GAS	121338.09	3984254.699	560749.6192	118.5691655	0.00	33.60		
San Joaquin	2032	T7 tractor	Aggregated	Aggregated	DSL	499.60708	35893.40022	2258.704175	0.00	5.602138578	6.41		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2033	LDA	Aggregated	Aggregated	GAS	394173.87	13535245.97	1838972.447	335.8067193	0.00	40.31	37.33	6.50
San Joaquin	2033	LDT1	Aggregated	Aggregated	GAS	39417.123	1264711.624	180953.8623	36.67137812	0.00	34.49		
San Joaquin	2033	LDT2	Aggregated	Aggregated	GAS	123895.93	4030671.652	572301.9944	117.7772095	0.00	34.22		
San Joaquin	2033	T7 tractor	Aggregated	Aggregated	DSL	502.26465	36548.82584	2270.718948	0.00	5.620270007	6.50		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2034	LDA	Aggregated	Aggregated	GAS	402260.1	13684803.32	1875368.179	335.3919488	0.00	40.80	37.83	6.61
San Joaquin	2034	LDT1	Aggregated	Aggregated	GAS	40362.179	1283258.762	185238.2888	36.75340506	0.00	34.92		
San Joaquin	2034	LDT2	Aggregated	Aggregated	GAS	126402.9	4077093.478	583616.7727	117.2034765	0.00	34.79		
San Joaquin	2034	T7 tractor	Aggregated	Aggregated	DSL	506.51689	37209.98469	2289.943159	0.00	5.630349695	6.61		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2035	LDA	Aggregated	Aggregated	GAS	410073.15	13829272.31	1910631.141	335.3109899	0.00	41.24	38.27	6.72
San Joaquin	2035	LDT1	Aggregated	Aggregated	GAS	41295.339	1301170.81	189434.4217	36.85774661	0.00	35.30		
San Joaquin	2035	LDT2	Aggregated	Aggregated	GAS	128860.99	4122456.187	594705.3624	116.8064626	0.00	35.29		
San Joaquin	2035	T7 tractor	Aggregated	Aggregated	DSL	511.876	37876.87679	2314.171486	0.00	5.638696489	6.72		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2036	LDA	Aggregated	Aggregated	GAS	417647.1	13968157.63	1944899.12	335.5298777	0.00	41.63	38.66	6.82
San Joaquin	2036	LDT1	Aggregated	Aggregated	GAS	42197.812	1318230.488	193494.1419	36.97325428	0.00	35.65		
San Joaquin	2036	LDT2	Aggregated	Aggregated	GAS	131275.86	4166362.855	605579.1884	116.5657608	0.00	35.74		
San Joaquin	2036	T7 tractor	Aggregated	Aggregated	DSL	518.75627	38609.66416	2345.276941	0.00	5.660368304	6.82		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													

Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2037	LDA	Aggregated	Aggregated	GAS	425069.01	14103490.1	1978439.146	336.0793117	0.00	41.96	39.01	6.92
San Joaquin	2037	LDT1	Aggregated	Aggregated	GAS	43094.076	1334784.576	197486.6806	37.11216818	0.00	35.97		
San Joaquin	2037	LDT2	Aggregated	Aggregated	GAS	133668.1	4209471.31	616306.5763	116.4928392	0.00	36.14		
San Joaquin	2037	T7 tractor	Aggregated	Aggregated	DSL	526.31037	39349.42535	2379.428736	0.00	5.682663273	6.92		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2038	LDA	Aggregated	Aggregated	GAS	432310.62	14241465.5	2011236.514	337.0653251	0.00	42.25	39.31	7.02
San Joaquin	2038	LDT1	Aggregated	Aggregated	GAS	43963.095	1351259.429	201361.9612	37.28075585	0.00	36.25		
San Joaquin	2038	LDT2	Aggregated	Aggregated	GAS	136012.57	4253391.244	626838.764	116.6080472	0.00	36.48		
San Joaquin	2038	T7 tractor	Aggregated	Aggregated	DSL	534.96948	40096.16036	2418.576209	0.00	5.709746024	7.02		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2039	LDA	Aggregated	Aggregated	GAS	439407.21	14375289.38	2043440.327	338.3004632	0.00	42.49	39.56	7.11
San Joaquin	2039	LDT1	Aggregated	Aggregated	GAS	44809.722	1367010.067	205135.7035	37.45907231	0.00	36.49		
San Joaquin	2039	LDT2	Aggregated	Aggregated	GAS	138323.9	4296054.97	637220.0402	116.841088	0.00	36.77		
San Joaquin	2039	T7 tractor	Aggregated	Aggregated	DSL	544.81115	40849.8692	2463.070012	0.00	5.74315466	7.11		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													
Region	CalYr	VehClass	Mdlyr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
San Joaquin	2040	LDA	Aggregated	Aggregated	GAS	446350.67	14504635.68	2075050.75	339.7406616	0.00	42.69	39.78	7.20
San Joaquin	2040	LDT1	Aggregated	Aggregated	GAS	45639.449	1382006.576	208823.2579	37.64484902	0.00	36.71		
San Joaquin	2040	LDT2	Aggregated	Aggregated	GAS	140592.15	4337261.708	647429.3541	117.1672895	0.00	37.02		
San Joaquin	2040	T7 tractor	Aggregated	Aggregated	DSL	555.25044	41610.55185	2510.265673	0.00	5.781929979	7.20		
Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).													