

C. Projected Future Traffic

C.1. Project Traffic

C.1.1. Project Trip Generation

The trip generation of the site was estimated using the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 10th Edition, 2017. The land use for "manufacturing" was selected as it best represents the use of the site. With this land use, the total daily trips as well as the peak hour trips are estimated. Because this site is considered a "truck intensive" land use, the project trips were converted into PCEs per the City of Rialto's *Traffic Impact Analysis Guidelines and Requirements*. Forty percent of the trips associated with this site are considered truck trips. The vehicle mix in the PCE calculation is consistent with the City of Rialto's specifications. Again, a factor of 1.5 was used for 2-axle vehicles, 2 for 3-axle vehicles, and 3.0 for 4+axle vehicles. Tables 6 and 7 summarize the project trip generation expected to and from the development per the ITE Trip Generation as well as the conversion of the trip generation into PCE values. Ultimately, the PCE values were used in analysis.

Table 6: Project Trip Generation

Land Use ¹		Quantity	Unit	Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Trip Generation Rates				4.006	0.475	0.142	0.617	0.206	0.465	0.671
Manufacturing		189,207 ²	KSF	758	90	27	117	39	88	127
Passenger Vehicles	60%			455	54	16	70	23	53	76
Trucks	40%			303	36	11	47	16	35	51

¹Source: ITE Trip Generation Manual, 10th Edition

²Site plan dated 2/2021 shows a total area of 188,493 SF of all manufacturing components. Quantity used in trip generation remains the same (a higher value) to match scope approved by City of Rialto.

Table 7: Project Trips in Passenger Car Equivalents (PCE)

Vehicle Type	Vehicle Mix ¹	Daily Vehicles	PCE Factor	Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Passenger Vehicles	60%	455	1.0	455	54	16	70	23	53	76
2-Axle Trucks	0.8%	6	1.5	9	1	0	1	0	1	2
3-Axle Trucks	11.2%	85	2.0	170	20	6	26	9	20	28
4+ Axle Trucks	28.0%	212	3.0	637	76	23	98	33	74	107
Total Truck PCE Trips				816	97	29	126	42	95	137
Total Project PCE Trips				1,270	151	45	196	65	147	213

¹Source: City of Rialto Traffic Impact Analysis Report Guidelines and Requirements, December 2013

Notes: PCE = Passenger Car Equivalent

SF = Square Feet

While the ITE Trip Generation Manual can estimate the number of daily, AM, and PM trips based on building square footage, it is still an estimate. The specific site operations indicate that there will be