

**APPENDIX D**  
**Trip Generation Summary**

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**Table 1**  
**ITE Trip Generation Rates<sup>1</sup>**

Land Use	Units <sup>2</sup>	ITE Code	AM			PM			Daily
			In	Out	Total	In	Out	Total	
Industrial Park	TSF	130	0.32	0.08	0.40	0.08	0.32	0.40	3.37
General Office	TSF	710	1.00	0.16	1.16	0.18	0.97	1.15	9.74

<sup>1</sup> Source: 2017 ITE Trip Generation Manual (10th Edition)

<sup>2</sup> TSF = thousand square feet

**Table 2  
Proposed Project Trip Generation**

Proposed Land Uses									
Land Use (ITE Code)	Quantity	Units <sup>2</sup>	AM			PM			Daily Total
			In	Out	Total	In	Out	Total	
<b>Buildings 7 &amp; 8</b>									
Industrial Park (130) [Without PCE-Adjustment] <sup>1</sup>	155,052	TSF	50	12	62	13	49	62	523
PCE-Adjustment <sup>3</sup>	Passenger Vehicles (87%) [1.0 PCE]		44	10	54	11	43	54	455
	2-Axle Trucks (1%) [1.5 PCE]		1	0	1	0	1	1	8
	3-Axle Trucks (1%) [2.0 PCE]		1	0	1	0	1	1	10
	4 or more-Axle Trucks (11%) [3.0 PCE]		17	4	21	4	16	20	173
<b>Buildings 7 &amp; 8 Total (PCE-Adjusted)</b>			<b>63</b>	<b>14</b>	<b>77</b>	<b>15</b>	<b>61</b>	<b>76</b>	<b>646</b>
<b>Building 6</b>									
Truck Trips [Without PCE-Adjustment] <sup>4</sup>	610,000	TSF	6	6	12	3	3	6	74
PCE-Adjustment		6-Axle Trucks (100%) [3.0 PCE]	18	18	36	9	9	18	222
Employee Trips <sup>5</sup>	610,000	TSF	0	0	0	0	0	0	1,880
<b>Building 6 Total (PCE-Adjusted)</b>			<b>18</b>	<b>18</b>	<b>36</b>	<b>9</b>	<b>9</b>	<b>18</b>	<b>2,102</b>
		<b>Project Total (Without PCE-Adjustment)</b>	<b>56</b>	<b>18</b>	<b>74</b>	<b>16</b>	<b>52</b>	<b>68</b>	<b>2,477</b>
		<b>Project Total (With PCE-Adjustment)</b>	<b>81</b>	<b>32</b>	<b>113</b>	<b>24</b>	<b>70</b>	<b>94</b>	<b>2,748</b>

<sup>1</sup> Source: 2017 ITE Trip Generation Manual (10th Edition)

<sup>2</sup> TSF = thousand square feet

<sup>3</sup> The ITE Trip Generation Handbook documents that on average, approximately 13 percent of the trips generated by the Industrial Park land use category are truck trips. Since the ITE Trip Generation Handbook does not break down trucks by axle type, this analysis utilizes truck axle breakdown data documented in the Fontana Truck Trip Generation Study (2003).

Based on the Fontana Truck Trip Generation Study (2003), out of the 13 percent total truck traffic, 7.9 percent (equivalent to 1% of total traffic) of Industrial Park truck trips consist of 2 axle trucks, 7.1 percent (equivalent to 1% of total traffic) of Industrial Park truck trips consist of 3 axle trucks, and 85 percent (equivalent to 11% of total traffic) of Industrial Park truck trips consist of 4 or more axle trucks.

<sup>4</sup> Truck trip activity based on operational information provided by user.

<sup>5</sup> Employee trip activity based on operational information provided by user. Based on the information provided, the employees work three shifts of 6:00 AM to 2:00 PM (approximately 190 vehicles), 2:00 PM to 10:00 PM (approximately 209 vehicles), and 10:00 PM to 6:00 AM (approximately 228 vehicles). Hence, none of the employee work shifts are expected to begin or end during the traffic peak periods of 7:00 AM to 9:00 AM or 4:00 PM to 6:00 PM. Daily trip generation for employees is based on round trips for a total of 627 vehicles over three shifts (1,254 two-way trips) and assumes fifty percent of the employees leave the site for lunch and come back, resulting in an approximately additional 626 two-way trips, or a total of 1,880 two-way employee trips. This is a conservative assumption since during the night shifts, restaurants, off-site eateries, and other businesses are generally closed.

**Table 3**  
**Existing Use Trip Generation<sup>1</sup>**

Existing Land Uses										
Land Use (ITE Code)	Quantity	Units <sup>2</sup>	AM			PM			Daily	
			In	Out	Total	In	Out	Total		
Office - 1900 Toyota Way [Existing Structure #17] (710)	83.930	TSF	84	14	98	15	81	96	817	
Office - 1850 Toyota Way [Existing Structure #18] (710)	65.622	TSF	65	11	76	12	63	75	639	
Office - 19801 Toyota Way [Existing Structure #19] (710)	252.309	TSF	252	41	293	46	244	290	2,457	
Office - 19871 Toyota Way [Existing Structure #20] (710)	379.596	TSF	379	62	441	70	367	437	3,697	
<b>Total</b>	<b>781.457</b>	<b>TSF</b>	<b>780</b>	<b>128</b>	<b>908</b>	<b>143</b>	<b>755</b>	<b>898</b>	<b>7,610</b>	

<sup>1</sup> Source: 2017 ITE Trip Generation Manual (10th Edition)

<sup>2</sup> TSF = thousand square feet

**Table 4**  
**Proposed Project NET Trip Generation**

Land Use	AM			PM			Daily
	In	Out	Total	In	Out	Total	
Proposed Project (PCE-Adjusted)	81	32	113	24	70	94	2,748
Existing Land Uses	-780	-128	-908	-143	-755	-898	-7,610
<b>Project NET Trip Generation</b>	<b>-699</b>	<b>-96</b>	<b>-795</b>	<b>-119</b>	<b>-685</b>	<b>-804</b>	<b>-4,862</b>