

MEMORANDUM TO: Selvei Rajkumar
KLA Schools

FROM: Michael A. Werthmann, PE, PTOE
Principal

DATE: December 18, 2018

SUBJECT: Trip Generation Estimates
KLA School
Naperville, Illinois

This memorandum summarizes the estimated traffic to be generated by a proposed day care/preschool to be located in Naperville, Illinois. The site of the school is located on the east side of Tuthill Road just south of Ogden Avenue. As proposed, the site will be developed with an approximate 12,500 square-foot day care/preschool that will have a total of approximately 180 students. According to the operator, the morning drop-off period will generally occur from 6:30 A.M. to 9:00 A.M. and the evening pick-up period will generally occur from 3:30 P.M. to 6:30 P.M. The number of peak hour trips estimated to be generated by the proposed daycare/preschool was based on Day Care Center (Land-Use Code 560) vehicle trip generation rates contained in *Trip Generation Manual*, 10th Edition, published by the Institute of Transportation Engineers (ITE). **Table 1** summarizes the trips projected to be generated by the proposed day care/preschool and copies of the ITE trip rates are included in the Appendix.

Table 1
PROJECTED DAY CARE/PRESCHOOL-GENERATED TRAFFIC VOLUMES

ITE Land Use Code	Type/Size	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
		In	Out	Total	In	Out	Total
560	Day Care/Preschool (180 students)	74	66	140	67	75	142

Appendix

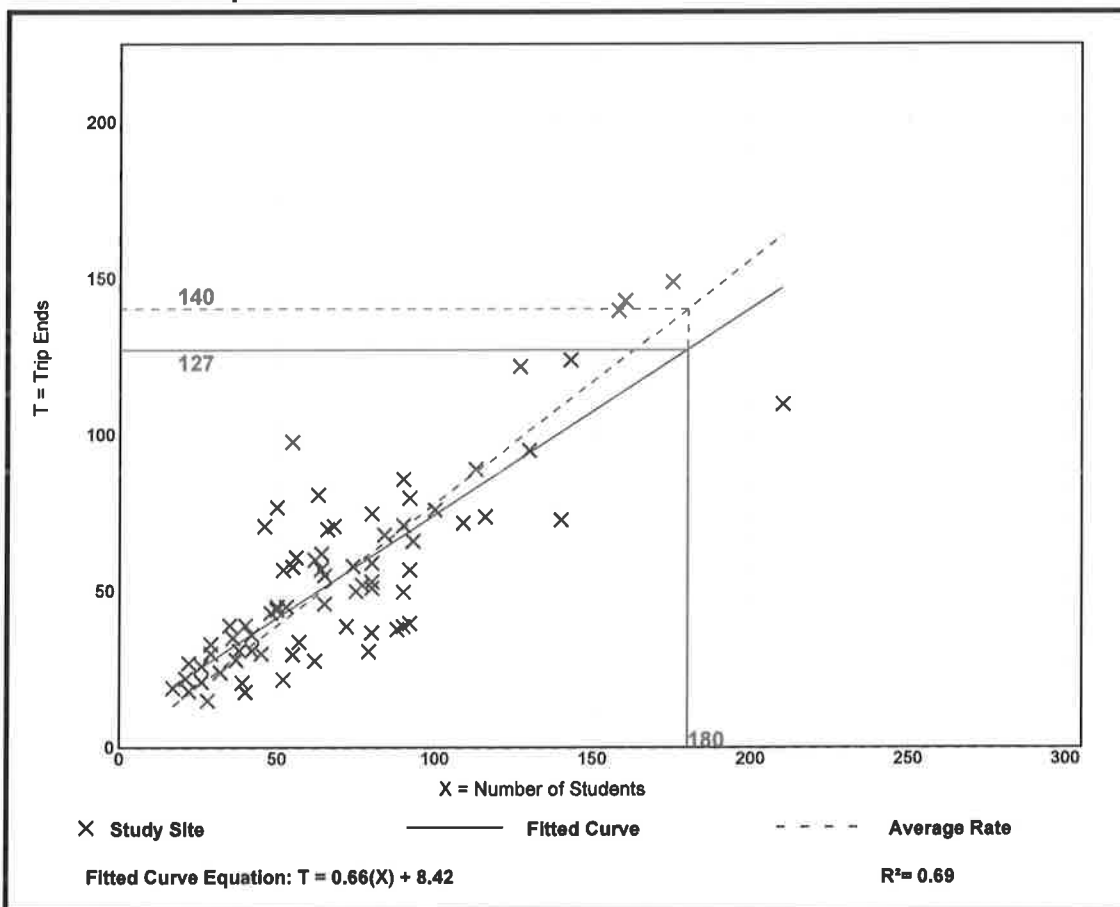
Day Care Center (565)

Vehicle Trip Ends vs: Students
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
 Number of Studies: 75
 Avg. Num. of Students: 71
 Directional Distribution: 53% entering, 47% exiting

Vehicle Trip Generation per Student

Average Rate	Range of Rates	Standard Deviation
0.78	0.39 - 1.78	0.25

Data Plot and Equation



Day Care Center (565)

Vehicle Trip Ends vs: Students
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
 Number of Studies: 75
 Avg. Num. of Students: 72
 Directional Distribution: 47% entering, 53% exiting

Vehicle Trip Generation per Student

Average Rate	Range of Rates	Standard Deviation
0.79	0.24 - 1.72	0.30

Data Plot and Equation

