

MEMORANDUM

DATE: April 2, 2012

TO: Joel Hamby, City of Imperial
Ms. Valorie Thompson, Scientific Resources Associated

FROM: Bill Darnell, Darnell & Associates, Inc.

D&A No.: 120201

Subject: Aten Road at Dogwood Road Travel Speeds.



In accordance with Ms. Thompson's request I have calculated the average approach speeds on Aten Road and Dogwood Road for the all-way stop condition and with full actuated traffic signal control. Table 1 presents the recommended speeds to be used for the All-way Stop Air Quality Analysis.

Approach	AM Peak	PM Peak	Average
Eastbound Aten Road	14.6 MPH	14.9 MPH	14.75 MPH
Westbound Aten Road	17.3 MPH	14.5 MPH	15.9 MPH
Northbound Dogwood Road	14.3 MPH	12.3 MPH	13.3 MPH
Southbound Dogwood Road	13.9 MPH	11.7 MPH	12.8 MPH
Intersection	14.8 MPH	13.4 MPH	14.1 MPH

The installation of the traffic signal is proposed to be constructed as a 6 Phase fully actuated traffic signal with a left turn phasing on Aten Road and the signal will be recalled to serve Aten Road. With this operation the expected average travel speeds by approach are presented in Table 2.

Eastbound Aten Road	55 MPH
Westbound Aten Road	55 MPH
Northbound Dogwood Road	25 MPH
Southbound Dogwood Road	25 MPH

