

Addendum to the Project File

US 301 (Gall Boulevard) from South of Proposed SR 56 to South of SR 39 (Buchman Highway)

The limits of the original Environmental Assessment with a Finding of No Significant Impact (EA/FONSI), approved 1/25/1993, included SR 54 (currently SR 56) from Cypress Creek Road to US 301 and extended northward along US 301 (Gall Boulevard) to Zephyrhills East By-pass/Chancey Road. During the Re-evaluation of this segment of the EA/FONSI (from SR 56 to Chancey Road), including the Chancey Road/US 301 (Gall Boulevard) intersection, the limit was extended to the north from Chancey Road to SR 39 (Buchman Highway), a total distance of 0.4 mile. Project documents refer to this 0.4 mile extension as the second segment associated with a new Type 2 Categorical Exclusion (CE).

During a meeting held on September 26, 2017, District 7 in coordination with the Office of Environmental Management, agreed to include the evaluation of the 0.4 mile extension with the Re-evaluation of the EA/FONSI. This reduces confusion to the public and sets logical project termini. All supporting environmental and engineering documents have evaluated the limits of the segment being advanced as part of the EA/FONSI Re-evaluation, as well as the 0.4 mile extension. It should be noted that the inclusion of the 0.4 mile extension does not change the outcome of the analysis conducted.



Date: May 13, 2015

To: Martin Peate, AECOM

From: Lindsay Baumaister

**Subject: Air Quality Memorandum
US 301 (Gall Blvd) Project Development and Environment (PD&E) Study
From (Proposed) SR 56 to SR 39
Financial Project ID #416564-1-22-01**

The referenced proposed improvement is located in Pasco County, Florida, an area currently designated by the U.S. Environmental Protection Agency (EPA) as being in attainment for all of the criteria air pollutants. Because the project is in an attainment area and the project would reduce congestion, it is not likely that the proposed improvements will have an impact on local or regional air pollutant/pollutant precursor emissions or concentrations.

The project Build and No-Build alternatives were analyzed using the Florida Department of Transportation's (FDOT's) air quality screening model, CO Florida 2012 (released January 9, 2012). CO Florida 2012 uses the EPA's MOBILE6 and CAL3QHC emission rate and dispersion models to produce estimates of one- and eight-hour concentrations of carbon monoxide (CO) at default air quality receptor locations. These concentrations can be directly compared to the one- and eight-hour National Ambient Air Quality Standards (NAAQS) for CO. The NAAQS for CO are 35 and 9 parts per million (ppm), respectively.

In both the opening year (2020) and the design year (2040) for the project the intersection forecast to have the highest approach traffic volume with the Build and No-Build alternatives is the US 301 (Gall Boulevard)/SR 39 intersection.

Estimates of CO were predicted at default receptor locations in all quadrants of the US 301 (Gall Boulevard)/SR 39 intersection. Based on the results from the screening model, shown in **Table 1**, the highest predicted CO one- and eight-hour concentrations would not exceed the NAAQS for this pollutant regardless of alternative or year of analysis. Therefore, the project "passes" the screening test. The CO Florida 2012 output files are attached to this memorandum.

Table 1
Intersection CO Screening Results for the US 301 (Gall Boulevard)/SR 39 Intersection

Year	Alternative	Maximum CO Levels (ppm)		Passes Screening Test?
		NAAQS one-hr/ Project one-hr	NAAQS eight-hr/ Project eight-hr	
2020 (Opening Year)	Build	35/8	9/5	Yes
	No-Build	35/8	9/5	Yes
2040 (Design Year)	Build	35/10	9/6	Yes
	No-Build	35/10	9/6	Yes

Source: KBE, 2015.

Notably, because the US 301 (Gall Boulevard) project is in an area that is designated attainment for all the NAAQS, the conformity requirements of the Clean Air Act do not apply.

Attachments

- 1. Traffic Data for Air Study Screening Test**
- 2. Carbon Monoxide Screening Test Results**

PD&E
TRAFFIC DATA FOR AIR STUDY SCREENING TEST

DATE: 9-Sep-2014
PREPARED BY: URS

Financial Project Number(s):
Work Program Item No.: 416564-1
Federal Aid Numbers (s): 3112-024 P
Project Description: US 301 (Gall Boulevard) PD&E Study

NOTE: The most congested intersection is the intersection with the highest total volume and lowest departure speeds and it could be two different intersections based on the "Build" vs. "No-Build" alternatives. The traffic volumes are to be the vph of the most congested leg approaching the intersection. The speeds are to be the cruise speed, also known as mid-block speed, for the most congested leg. If cruise speed is unknown, use the speed limit.

OPENING YEAR: 2020

"Build"	"No-Build"
Most Congested Intersection: US 301 (Gall Boulevard) at SR 39	Most Congested Intersection: US 301 (Gall Boulevard) at SR 39
Peak Hour Traffic for most congested leg: 3780 vph	Peak Hour Traffic for most congested leg: 3780 vph
Specify leg: North	Specify leg: North
Cruise Speed: 45 mph	Cruise Speed: 45 mph

DESIGN YEAR: 2040

"Build"	"No-Build"
Most Congested Intersection: US 301 (Gall Boulevard) at SR 39	Most Congested Intersection: US 301 (Gall Boulevard) at SR 39
Peak Hour Traffic for most congested leg: 5794 vph	Peak Hour Traffic for most congested leg: 5794 vph
Specify leg: North	Specify leg: North
Cruise Speed: 45 mph	Cruise Speed: 45 mph

CO Florida 2012 - Results
Tuesday, May 12, 2015

Project Description

Project Title US 301 PD&E SR 56 to SR 39
Facility Name US 301 from SR 56 to SR 39
User's Name Lindsay Baumaister
Run Name 2020 No Build/Build
FDOT District 7
Year 2020
Intersection Type East Tee
Speed Arterial 45 mph
Approach Traffic Arterial 3780 vph

Environmental Data

Temperature 48.8 °F
Reid Vapor Pressure 13.3 psi
Land Use Suburban
Stability Class D
Surface Roughness 108 cm
1 Hr. Background Concentration 3.3 ppm
8 Hr. Background Concentration 2.0 ppm

Results
(ppm, including background CO)

Receptor	Max 1-Hr	Max 8-Hr
1	8.0	4.8
2	7.9	4.7
3	7.9	4.7
4	6.0	3.6
5	5.3	3.2
6	5.6	3.4
7	6.4	3.8
8	7.6	4.6
9	6.7	4.0
10	6.3	3.8
11	8.1	4.9
12	8.0	4.8
13	8.0	4.8
14	8.0	4.8
15	7.3	4.4
16	6.5	3.9
17	6.3	3.8

*****PROJECT PASSES*****
NO EXCEEDANCES OF NAAQ STANDARDS ARE PREDICTED

CO Florida 2012 - Results
Tuesday, May 12, 2015

Project Description

Project Title US 301 PD&E SR 56 to SR 39
Facility Name US 301 from SR 56 to SR 39
User's Name Lindsay Baumaister
Run Name 2040 No Build/Build
FDOT District 7
Year 2040
Intersection Type East Tee
Speed Arterial 45 mph
Approach Traffic Arterial 5794 vph

Environmental Data

Temperature 48.8 °F
Reid Vapor Pressure 13.3 psi
Land Use Suburban
Stability Class D
Surface Roughness 108 cm
1 Hr. Background Concentration 3.3 ppm
8 Hr. Background Concentration 2.0 ppm

Results
(ppm, including background CO)

Receptor	Max 1-Hr	Max 8-Hr
1	9.5	5.7
2	9.2	5.5
3	9.2	5.5
4	6.7	4.0
5	5.9	3.5
6	6.0	3.6
7	7.3	4.4
8	8.6	5.2
9	7.7	4.6
10	7.0	4.2
11	9.7	5.8
12	9.5	5.7
13	9.5	5.7
14	9.5	5.7
15	8.5	5.1
16	7.3	4.4
17	7.1	4.3

*****PROJECT PASSES*****
NO EXCEEDANCES OF NAAQ STANDARDS ARE PREDICTED
