

**FINAL
ENVIRONMENTAL ASSESSMENT
NORTHERN PARKWAY**

**FEDERAL PROJECT NO. STP-MMA-0(034)N
TRACS NO. 0000 MA MMA SS593 01C**

April 26, 2010

ARIZONA DEPARTMENT OF TRANSPORTATION
Intermodal Transportation Division
Environmental Planning Group
1611 West Jackson Street
Phoenix, AZ 85007


**FINAL
ENVIRONMENTAL ASSESSMENT**


for

Northern Parkway
Maricopa County, Arizona

**STP-MMA-0(034)N
0000 MA MMA SS593 01C**

April 26, 2010

Approved by:  Date: May 5, 2010
THOR ANDERSON
Manager
Environmental Planning Group

Approved by:  Date: May 11, 2010
for ROBERT E. HOLLIS
Division Administrator
Federal Highway Administration

This Environmental Assessment has been prepared in accordance with provisions and requirements of Chapter 1, Title 23 USC, 23 CFR Part 771 relating to the implementation of the National Environmental Policy Act of 1969.

TABLE OF CONTENTS

LIST OF ACRONYMS AND ABBREVIATIONS	ii
PART 1. INTRODUCTION	1
PART 2. MITIGATION MEASURES	2
Maricopa County Department of Transportation Design Responsibilities	2
Maricopa County Department of Transportation Construction Responsibilities	4
Contractor Responsibilities	5
Standard Specifications Included as Mitigation Measures	9
PART 3. ERRATA FROM DRAFT ENVIRONMENTAL ASSESSMENT	12

LIST OF FIGURES

Figure 4-4 Census Tracts	24
Figure 4-5 Public Bus Routes	26
Figure 4-10 Non-attainment Areas for 8-hour Ozone and Particulate Matter (PM ₁₀)	29

LIST OF TABLES

Table 2-1 Regional Population Growth Projections	14
Table 3-4 Comparison of Alternatives	20-21
Table 4-5 Air Quality Summary: 2009	30

LIST OF ATTACHMENTS

- Attachment 1 Public Hearing Information
- Attachment 2 Public Comment Log
- Attachment 3 Programmatic Agreement
- Attachment 4 Agency Letters

LIST OF ACRONYMS AND ABBREVIATIONS

$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
AASHTO	American Association for State Highway and Transportation Officials
ADEQ	Arizona Department of Environmental Quality
ADOT	Arizona Department of Transportation
AFB	Air Force Base
<i>ALCP</i>	<i>Arterial Life Cycle Program</i>
amsl	above mean sea level
APS	Arizona Public Service Company
BNSF	Burlington Northern Santa Fe Railway
CACTI	Citizens Advisory Committee for Transportation Issues
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CEQ	Council of Environmental Quality
CFR	Code of Federal Regulations
CO	carbon monoxide
CORRACTS	Corrective Action Sites
dBA	A-weighted decibels
DCR	Design Concept Report
EA	Environmental Assessment
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
EPNG	El Paso Natural Gas
ERNS	Emergency Response Notification System
FCDMC	Flood Control District of Maricopa County
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FPPA	Farmland Protection Policy Act
Grand Avenue	US 60
I-10	Interstate 10
L_{eq}	equivalent sound level
$L_{eq}(h)$	one-hour L_{eq}
LOS	Level of Service
LUST	leaking underground storage tank

MAG	Maricopa Association of Governments
MCDOT	Maricopa County Department of Transportation
MSATs	Mobile Source Air Toxics
mph	miles per hour
NAAQS	National Ambient Air Quality Standards
NAC	Noise Abatement Criteria
NAP	Noise Abatement Policy
National Register	National Register of Historic Places
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NPL	National Priorities List
NRCS	Natural Resources Conservation Service
PM ₁₀	particulate matter equal to or smaller than 10 microns in diameter
PM _{2.5}	particulate matter equal to or smaller than 2.5 microns in diameter
ppm	parts per million
RAZ	Regional Analysis Zone
RCRA	Resource Conservation and Recovery Act
RTP	Regional Transportation Plan
SHWS	State Hazardous Waste Sites
SO ₂	sulfur dioxide
<i>SPUI</i>	<i>single point urban interchange</i>
SR	State Route
SRP	Salt River Project
US	United States
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
U.S.C.	U.S. Code
USGS	U.S. Geological Survey
UST	underground storage tank
VMT	vehicle miles traveled
vpd	vehicles per day
WQARF	Water Quality Assurance Revolving Fund