



Tier Two

THIS PAGE INTENTIONALLY LEFT BLANK

Index

A

Agricultural	3-109
Agricultural Soil.....	3-110, 3-127
Drainage and Irrigation.....	3-112, 3-129
Farm Operations	3-109, 3-126
Farmland Production.....	3-120, 3-130
Land Capability Groups.....	3-111, 3-128
Measures to Minimize Impacts.....	3-133
Methodology	3-124
Specially Designated Agricultural Areas.....	3-119, 3-129
Air Quality	3-159
Climate Change.....	3-175
Criteria Pollutants.....	3-164
Mobile Source Air Toxics	3-170
Monitored Pollutant Levels.....	3-162
National and State Ambient Air Quality Standards	3-160
Potential Project Impacts and Analyses to be Conducted	3-164
Regulatory Setting and Compliance with Standards and Air Quality Conformity	3-160
Relevant Air Pollutants for Analysis.....	3-159
Alternatives.....	2-1
Build Alternatives.....	2-14
Conclusion – Alternatives Carried Forward for Further Analysis.....	2-90
Congestion Management Process.....	2-13
Development and Evaluation of Build Alternatives	2-17
No-Action Alternative.....	2-11

Tier Two Environmental Resource Database2-7

Tolling.....2-15

C

Construction Impacts.....3-631

 Air Quality.....3-634

 Construction Noise and Vibration.....3-635

 Energy.....3-637

 Solid Waste3-636

 Transportation.....3-632

 Utility Services3-636

 Water Resources.....3-632

Comparison of Alternatives5-1

 Conclusion.....5-20

 Context Sensitive Solutions.....5-57

 IL-53 Interchange Design Options.....5-13

 Implementation.....5-60

 Mainline Alternatives5-5

 Sustainability.....5-60

Cultural Resources3-135

 Archaeological Resources.....3-139

 Area of Potential Affect3-138

 Consulting Parties.....3-137

 Cultural Features in Study Area.....3-139

 Historic Built Resources3-146

 Initial Assessment of Effects (Archaeological Resources).....3-141

 Effects (Historic Built Resources).....3-151

 Resolving Adverse Effects.....3-144, 3-152

Section 106.....3-137

E

Energy3-203

- Environmental Consequences3-205
- Existing Conditions3-204
- Methodology3-203

Evaluation Methodology and Summary of Impacts and Mitigation3-3

- Evaluation of Environmental Impacts.....3-7
- Summary of Potential Environmental Impacts3-8
- Summary of Proposed Mitigation and Minimization Measures.....3-14
- Tiered Approach.....3-3

F

Floodplains and Floodways3-369

- Existing Conditions3-369
- Methodology for Assessing Floodplain and Floodway Impacts3-374
- Floodplain and Floodway Impacts.....3-375
- Floodplain and Floodway Mitigation3-383

G

Groundwater Resources3-357

- Existing Conditions3-357
- Groundwater Quality3-365
- Karst Topography3-367
- Methodology for Assessing Groundwater Impacts3-363
- Mitigation3-367
- Seeps3-366
- Well Head Protection Zones and Wells3-364

I

IL-53 Design Options	3-611
Agricultural.....	3-616
Air Quality.....	3-618
Cultural Resources.....	3-618
Energy.....	3-619
Environmental Justice.....	3-613
Floodplains and Floodways.....	3-624
Groundwater.....	3-623
Indirect and Cumulative	3-629
Mineral Resources.....	3-627
Natural Resources.....	3-619
Noise.....	3-618
Social and Economic Impacts.....	3-611
Special/Hazardous Waste.....	3-627
Special Lands.....	3-627
Traffic Impacts to IL-53	3-614
Visual Resources.....	3-628
Water Resources.....	3-620
Wetlands.....	3-627
Indirect and Cumulative Impacts	3-515
Cumulative Impacts	3-566
Definition of Reasonably Foreseeable Actions	3-525
Environmental Protection and Land Use Control Laws, Ordinances, and Programs	3-526
Geographic Limits	3-520
Impact Assessment	3-546
Methodology	3-516

Mitigation Measures.....	3-599
Scoping	3-520
Study Area Trends and Existing Conditions	3-537
Temporal Limits.....	3-525
Irreversible and Irretrievable Commitment of Resources.....	3-641

M

Mineral and Geologic Resources.....	3-481
Geologic Hazards.....	3-486, 3-497
Geologic Setting	3-481
Impact Assessment Methodology	3-495
Impact Evaluation.....	3-496
Mineral Resources.....	3-485, 3-496
Mitigation.....	3-499

N

Natural Resources	3-207
Threatened and Endangered Species	3-249
Upland Communities	3-210
Wildlife Resources	3-229
Noise	3-183
Affected Environment	3-183
Construction Noise.....	3-201
Environmental Consequences	3-188
Existing Noise Environment	3-186
Field Measurements.....	3-186
Noise Abatement Criteria	3-184

Noise Abatement Measures	3-190
Noise Compatible Land Use Planning Information.....	3-202

P

Permits and Certifications	3-475
Illinois	3-475
Indiana.....	3-477
Purpose and Need for Action.....	1-1
Project Background.....	1-1
Project Need	1-9
Purpose Statement.....	1-31
Regional Planning Context	1-7
Study Area.....	1-2
Public Comments and Agency Coordination	6-1
Cooperating and Participating Agencies	6-4
Developing Range of Alternative Corridors.....	6-17
Impact Methodologies.....	6-16
Lorenzo Road Outreach Activities	6-90
Other Outreach Activities	6-87
Public Outreach Meetings.....	6-26
Purpose and Need	6-15
Scoping	6-13
State and Federal Meetings.....	6-18

R

Relationship Between Short-Term Uses of Man’s Environment and the Maintenance and Enhancement of Long-Term Productivity.....	3-639
--	-------

S

Section 4(f) Evaluation.....	4-1
------------------------------	-----

Identification of Section 4(f) Resources	4-4
Potential Uses of Section 4(f) Resources.....	4-34
Preliminary <i>De Minimis</i> Impact Determination for the Wauponsee Glacial Trail	4-57
Proposed Action Measures to Minimize Harm.....	4-2
Section 4(f) Conclusions	4-60
Section 4(f) Coordination	4-60
Section 4(f) Regulations.....	4-1
Social and Economic	3-31
Economic Impacts.....	3-44
Environmental Justice.....	3-65
History of Development.....	3-31
Housing Characteristics	3-38
Local Planning.....	3-83
Neighborhood and Community	3-57
Population Characteristics	3-35
Public Facilities/Services	3-76
Relocations and Partial Commercial Impacts.....	3-81
Transportation Facilities.....	3-93
Special/Hazardous Waste.....	3-439
Affected Environment	3-439
Existing Conditions	3-440
Assessment Methodology	3-452
Mitigation.....	3-465
Non-Regulatory Agency Listed Sites/Concerns	3-447
Regulatory Agency Listings.....	3-440
Site Involvement	3-454
Special Lands.....	3-467

Existing Conditions	3-467
Impacts	3-470
Methodology for Assessing Special Lands Impacts.....	3-469
Mitigation.....	3-473

V

Visual Resources	3-501
Existing Conditions	3-501
Impacts	3-505
Methodology.....	3-504
Mitigation.....	3-513

W

Water Resources and Aquatic Habitats.....	3-283
Impacts	3-322
Methodology.....	3-321
Mitigation.....	3-349
Physical and Biological Description of Surface Water Bodies.....	3-288
Surface Water Resources	3-284
Water Quality.....	3-309
Watersheds.....	3-284
Wild and Scenic Rivers/Nationwide Rivers Inventory	3-288
Wetlands	3-385
Criteria for Jurisdictional Determinations	3-401
Farmed Wetlands.....	3-387
Floristic Quality Assessment.....	3-388
Impacts, Illinois.....	3-401
Impacts, Indiana.....	3-411
Methodology for Assessing Wetland Impacts.....	3-400

Mitigation.....3-421
Wetland Characteristics.....3-388
Wetland Functions.....3-387
Wetland Plant Communities.....3-389
Wetland Mitigation Sites.....3-388

THIS PAGE INTENTIONALLY LEFT BLANK