

Environmental Assessment

EASTSIDE TRANSIT CORRIDOR PHASE 2



Los Angeles County Metropolitan Transportation Authority

Eastside Transit Corridor Phase 2

In Los Angeles County

ENVIRONMENTAL ASSESSMENT

Pursuant to
National Environmental Policy Act (42 United States Code Section 4332),
49 United States Code Chapter 53, 16 United States Code Section 470,
23 Code of Federal Regulations Part 771, and 23 Code of Federal Regulations Part 450;
and by the
UNITED STATES DEPARTMENT OF TRANSPORTATION
FEDERAL TRANSIT ADMINISTRATION
and
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

The following persons may be contacted for additional information concerning this document:

Ray Tellis
Regional Administrator
Federal Transit Administration, Region IX
Charlene Lee Lorenzo, Director
Nick Hernandez, Transportation Program Specialist
Federal Transit Administration
888 South Figueroa Street, Suite 440
Los Angeles, CA 90017-5467

Jill Liu
Project Manager
Los Angeles County Metropolitan Transportation Authority
One Gateway Plaza
Los Angeles, CA 90012
Project Email: eastsidephase2@metro.net
Phone: 213-922-3012

Table of Contents

Executive Summary	ES-1
ES-1 Introduction	ES-1
ES-1.1 Project Background	ES-2
ES-2 Purpose and Need	ES-2
ES-3 Alternatives	ES-2
ES-3.1 No Build Alternative	ES-2
ES-3.2 Build Alternative	ES-3
ES-4 Summary of Environmental Consequences and Mitigation Measures	ES-3
1.0 Purpose and Need	1-1
1.1 Background	1-1
1.2 Project Purpose and Need	1-1
1.2.1 Project Purpose	1-1
1.2.2 Project Need	1-1
2.0 Description of Alternatives	2-1
2.1 Alternatives Screening and Selection Process	2-1
2.2 No Build Alternative	2-3
2.3 Build Alternative	2-4
2.3.1 Guideway Alignment	2-4
2.3.1.1 Traffic Circulation Changes	2-7
2.3.2 Proposed Stations	2-10
2.3.3 Guideway and Systems Facilities	2-15
2.3.4 Maintenance and Storage	2-19
2.3.5 Construction	2-26
2.3.6 Operations	2-36
2.3.7 Right-of-Way and Property Acquisition	2-37
2.3.8 Preliminary Cost Estimate and Funding	2-37
2.3.8.1 Project Cost	2-37
2.3.8.2 Funding Plan	2-38
2.3.9 Permits and Approvals	2-38
3.0 Affected Environment and Environmental Consequences	3-1
3.1 Introduction	3-1
3.1.1 Study Area	3-1
3.1.2 NEPA Implementing Regulations	3-3
3.1.3 Reasonably Foreseeable Effects	3-3
3.1.4 Environmental Resources of No Concern	3-4
3.2 Air Quality	3-2-1
3.2.1 Affected Environment	3-2-1
3.2.2 No Build Alternative	3-2-3
3.2.3 Build Alternative	3-2-4
3.2.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3-2-6

3.3	Biological Resources.....	3.3-1
3.3.1	Affected Environment.....	3.3-1
3.3.1.1	Federally Listed Species	3.3-1
3.3.1.2	Migratory Birds and Vegetation	3.3-4
3.3.2	No Build Alternative.....	3.3-4
3.3.3	Build Alternative.....	3.3-5
3.3.4	Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.3-5
3.4	Community Impacts	3.4-1
3.4.1	Affected Environment.....	3.4-1
3.4.1.1	Neighborhood Continuity	3.4-3
3.4.1.2	Physical Character.....	3.4-5
3.4.1.3	Access and Mobility	3.4-7
3.4.1.4	Community Facilities and Public Services.....	3.4-7
3.4.2	No Build Alternative.....	3.4-11
3.4.3	Build Alternative.....	3.4-11
3.4.4	Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.4-11
3.5	Historic, Archaeological and Tribal Resources.....	3.5-1
3.5.1	Affected Environment.....	3.5-1
3.5.1.1	Architectural Resources.....	3.5-3
3.5.1.2	Archaeological Resources	3.5-4
3.5.1.3	Tribal Resources.....	3.5-4
3.5.2	No Build Alternative.....	3.5-4
3.5.3	Build Alternative.....	3.5-4
3.5.3.1	Visual Effects on Architectural Historic Properties.....	3.5-4
3.5.3.2	Noise and Vibration Effects on Built Environment Historic Properties	3.5-5
3.5.3.3	Effects on Archaeological Resources	3.5-5
3.5.4	Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.5-6
3.6	Economic Impacts	3.6-1
3.6.1	Affected Environment.....	3.6-1
3.6.1.1	Methodology	3.6-1
3.6.1.2	Existing Conditions.....	3.6-2
3.6.2	No Build Alternative.....	3.6-3
3.6.3	Build Alternative.....	3.6-3
3.6.4	Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.6-7
3.7	Geology, Soils, Seismic and Paleontological Resources	3.7-1
3.7.1	Affected Environment.....	3.7-1
3.7.1.1	Geology, Soils, and Seismic Conditions.....	3.7-1
3.7.1.2	Paleontological Resources	3.7-2
3.7.2	No Build Alternative.....	3.7-6
3.7.3	Build Alternative.....	3.7-6
3.7.4	Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.7-7

3.8 Visual Resources	3.8-1
3.8.1 Affected Environment	3.8-1
3.8.1.1 Study Area and Existing Visual Context	3.8-1
3.8.1.2 Visual Character and Visual Quality	3.8-1
3.8.1.3 Landscape Units and Viewsheds	3.8-1
3.8.1.4 Visual Change and Noticeability	3.8-2
3.8.1.5 Viewers and Viewer Sensitivity	3.8-2
3.8.1.6 Assessment Process	3.8-6
3.8.2 No Build Alternative	3.8-6
3.8.3 Build Alternative	3.8-6
3.8.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.8-10
3.9 Hazardous Materials	3.9-1
3.9.1 Affected Environment	3.9-1
3.9.1.1 Methodology	3.9-1
3.9.1.2 Existing Setting	3.9-1
3.9.2 No Build Alternative	3.9-8
3.9.3 Build Alternative	3.9-8
3.9.3.1 Transportation, Storage, Use, and Disposal of Hazardous Materials	3.9-8
3.9.3.2 Release of Hazardous Materials	3.9-9
3.9.3.3 Hazardous Materials Sites	3.9-9
3.9.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.9-9
3.10 Water Resources	3.10-1
3.10.1 Affected Environment	3.10-1
3.10.2 No Build Alternative	3.10-6
3.10.3 Build Alternative	3.10-6
3.10.3.1 Water Quality	3.10-6
3.10.3.2 Groundwater Supplies and Recharge	3.10-7
3.10.3.3 Drainage	3.10-7
3.10.3.4 Floodplains and Wetlands	3.10-8
3.10.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.10-8
3.11 Land Use and Development	3.11-1
3.11.1 Affected Environment	3.11-1
3.11.2 No Build Alternative	3.11-4
3.11.3 Build Alternative	3.11-4
3.11.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.11-7
3.12 Acquisitions and Relocations	3.12-1
3.12.1 Affected Environment	3.12-1
3.12.1.1 Acquisitions and Easements	3.12-1
3.12.1.2 Displacements and Replacements	3.12-2
3.12.1.3 Property Displacement Analysis	3.12-2
3.12.1.4 Parcel Analysis	3.12-2
3.12.2 No Build Alternative	3.12-3

3.12.3 Build Alternative.....	3.12-3
3.12.3.1 Acquisitions.....	3.12-4
3.12.3.2 Displacement	3.12-5
3.12.3.3 Replacements and Relocations.....	3.12-6
3.12.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.12-6
3.13 Noise and Vibration	3.13-1
3.13.1 Affected Environment	3.13-1
3.13.2 No Build Alternative	3.13-3
3.13.3 Build Alternative.....	3.13-3
3.13.3.1 Long-Term Noise Effects	3.13-3
3.13.3.2 Long-Term Vibration Effects	3.13-6
3.13.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.13-8
3.14 Safety and Security	3.14-1
3.14.1 Affected Environment	3.14-1
3.14.1.1 Public Service Providers and Facilities	3.14-1
3.14.2 No Build Alternative	3.14-6
3.14.3 Build Alternative.....	3.14-6
3.14.3.1 Rail Alignment and Traffic Safety.....	3.14-6
3.14.3.2 Station and MSF Safety and Access	3.14-6
3.14.3.3 Emergency Preparedness and Public Safety Coordination.....	3.14-7
3.14.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.14-8
3.15 Transportation	3.15-1
3.15.1 Affected Environment	3.15-1
3.15.1.1 Methodology	3.15-1
3.15.2 No Build Alternative	3.15-2
3.15.3 Build Alternative.....	3.15-3
3.15.3.1 Transit	3.15-3
3.15.3.2 Transportation Network	3.15-4
3.15.3.3 Local Roadway Circulation	3.15-5
3.15.3.4 Parking	3.15-8
3.15.3.5 Pedestrian and Bicycle Circulation.....	3.15-9
3.15.3.6 Emergency Access.....	3.15-10
3.15.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.15-10
3.16 Utilities	3.16-1
3.16.1 Affected Environment	3.16-1
3.16.1.1 Utility Providers	3.16-1
3.16.1.2 Electricity and Natural Gas	3.16-2
3.16.1.3 Water Supply	3.16-2
3.16.1.4 Sanitary Sewer	3.16-2
3.16.1.5 Storm Drains	3.16-3
3.16.1.6 Telecommunications.....	3.16-3
3.16.1.7 Solid Waste Capacity.....	3.16-3

3.16.2 No Build Alternative	3.16-3
3.16.3 Build Alternative.....	3.16-4
3.16.3.1 Water Supplies and Facilities.....	3.16-4
3.16.3.2 Wastewater Treatment Facilities and Capacity	3.16-5
3.16.3.3 Stormwater Facilities	3.16-5
3.16.3.4 Electric Power	3.16-5
3.16.3.5 Natural Gas	3.16-6
3.16.3.6 Telecommunication	3.16-6
3.16.3.7 Solid Waste	3.16-6
3.16.4 Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.16-6
3.17 Construction	3.17-1
3.17.1 Affected Environment	3.17-1
3.17.1.1 No Build Alternative.....	3.17-1
3.17.1.2 Build Alternative	3.17-2
3.17.2 Construction Effects, Avoidance, Minimization, and Mitigation Measures for the Build Alternative	3.17-4
4.0 Section 4(f) Properties	4-1
4.1 Affected Environment	4-1
4.2 Section 4(f) Resources	4-1
4.2.1 Section 4(f) Use and Impact Determinations.....	4-1
4.2.2 Section 4(f) Resources in Area of Potential Effects.....	4-2
4.3 No Build Alternative	4-5
4.4 Build Alternative	4-5
4.4.1 Use of Section 4(f) Properties through Permanent Incorporation and/or Temporary Occupancy	4-5
4.4.1.1 National Chicano Moratorium March Historic District.....	4-5
4.4.1.2 Vail Field Industrial Addition Historic District	4-6
4.4.1.3 Pacific Metals Company Property.....	4-6
4.4.2 Constructive Use of Section 4(f) Properties.....	4-7
4.4.3 Agency Coordination and Consultation	4-8
4.5 Avoidance, Minimization, and Mitigation Measures for the Build Alternative.....	4-8
5.0 Public Involvement	5-1
5.1 Public Involvement from 2007 through 2024	5-1
5.2 NEPA Public Outreach	5-1
5.3 Agency Consultation.....	5-3
5.4 Tribal Coordination.....	5-3
5.5 Stakeholder Coordination	5-6
5.6 NEPA Public Circulation	5-6

Tables

Table ES.1 Summary of Environmental Effects	ES-5
Table 2.1 Planned Regional Transit Projects Assumed to be in Operation by 2050	2-3
Table 2.2 Left Turns Eliminated and Circulation Changes	2-9
Table 2.3 Lane Reduction	2-10
Table 2.4 Proposed Stations for the Build Alternative	2-10
Table 2.5 Additional Elements Supporting Build Alternative Operations	2-15
Table 2.6 Crossover Locations	2-17
Table 2.7 Traction Power Substations and Train Control House Locations	2-18
Table 2.8 MSF Sites 1, Site 2, and Site 3 Comparison.....	2-20
Table 2.9 Summary of Construction Activities for the Build Alternative	2-27
Table 2.10 Potential Construction Staging Area Locations	2-30
Table 2.11 Total Number of Anticipated Haul Trucks	2-33
Table 2.12 Operating Hours and Frequency for the Build Alternative.....	2-36
Table 2.13 2050 Ridership Forecast of the Build Alternative	2-37
Table 2.14 Funding Sources.....	2-38
Table 2.15 Agency Approvals and Permits for the Build Alternative	2-39
Table 3.2-1 Existing Conditions – Regional Total Operational Emissions (Pounds per Day)	3.2-2
Table 3.2-2 No Build Alternative – Regional Total Operational Emissions (Pounds per Day) (2050).....	3.2-3
Table 3.2-3 Air Quality Impact Summary – No Build Alternative	3.2-4
Table 3.2-4 Build Alternative with MSF – Regional Total Annual Operational Emissions (Pounds per Day)	3.2-6
Table 3.2-5 Long-Term Avoidance, Minimization, and Mitigation Measures	3.2-7
Table 3.3-1 Federally Listed Wildlife and Plant Species Potentially in the Biological Resources Study Area	3.3-3
Table 3.3-2 Biological Resources Impact Summary – No Build Alternative	3.3-5
Table 3.3-3 Long-Term Avoidance, Minimization, and Mitigation Measures	3.3-6
Table 3.4-1 Population, Household, and Employment Characteristics of the Community Cohesion Study Area	3.4-3
Table 3.4-2 Local Planning Priorities for the Community Cohesion Study Area	3.4-3
Table 3.4-3 Major Employers and Industries in the Community Cohesion Study Area	3.4-4
Table 3.4-4 Major Activity Centers in the Community Cohesion Study Area.....	3.4-5
Table 3.4-5 Physical Character of the Community Cohesion Study Area.....	3.4-6
Table 3.4-6 Community Facilities and Public Services within the Community Facilities and Public Services Study Area	3.4-8
Table 3.5-1 Historic Properties in the Area of Potential Effects.....	3.5-3
Table 3.5-2 Cultural Resources Impact Summary – No Build Alternative	3.5-4
Table 3.5-3 Long-Term Avoidance, Minimization, and Mitigation Measures	3.5-6
Table 3.6-1 Employment and Population Forecasts.....	3.6-2
Table 3.6-2 Unemployment Rates for the Economics Study Area and Nationally.....	3.6-2
Table 3.6-3 Housing and Transportation Costs for Economics Study Area Jurisdictions	3.6-3
Table 3.6-4 Economic and Fiscal Impact Summary – No Build Alternative.....	3.6-3
Table 3.6-5 Summary of Economic Effects of the Build Alternative	3.6-4

Table 3.6-6 Annual Operation and Maintenance Costs	3.6-5
Table 3.6-7 Annual Operation and Maintenance Earnings and Employment Effects	3.6-5
Table 3.6-8 Project Annual Value of Travel Time Savings in 2050	3.6-6
Table 3.6-9 Project Annual Travel Cost Savings in 2050.....	3.6-6
Table 3.6-10 Long-term Avoidance, Minimization, and Mitigation Measures.....	3.6-8
Table 3.7-1 Geology, Soils, Seismic, and Paleontological Resources Impact Summary – No Build Alternative	3.7-6
Table 3.7-2 Long-Term Avoidance, Minimization, and Mitigation Measures	3.7-8
Table 3.8-1 Existing Visual Characteristics by Landscape Unit	3.8-4
Table 3.8-2 Visual Resources Impact Summary – No Build Alternative	3.8-6
Table 3.8-3 Long-Term Impacts	3.8-7
Table 3.8-4 Long-term Avoidance, Minimization, and Mitigation Measures.....	3.8-11
Table 3.9-1 Affected Properties with Previous Documented Releases	3.9-3
Table 3.9-2 Pipelines and Oil and Gas Wells Near or Intersecting the Study Area	3.9-7
Table 3.9-3 No Build Alternative Impact Summary	3.9-8
Table 3.9-4 Long-Term Avoidance, Minimization, and Mitigation Measures	3.9-10
Table 3.10-1 Water Impact Summary – No Build Alternative	3.10-6
Table 3.10-2 Long-Term Avoidance, Minimization, and Mitigation Measures	3.10-9
Table 3.11-1 Land Use Distribution within 0.25 Mile of the Build Alternative Alignment.....	3.11-1
Table 3.11-2 Land Use Distribution within 0.5 Mile of the Build Alternative Stations	3.11-3
Table 3.11-3 Land Use Impact Summary – No Build Alternative	3.11-4
Table 3.11-4 Consistency with Land Use Plans.....	3.11-5
Table 3.11-5 Long-Term Avoidance, Minimization, and Mitigation Measures	3.11-8
Table 3.12-1 No Build Alternative Impact Summary	3.12-3
Table 3.12-2 Sources and Causes of Potential Property Acquisitions and Displacements	3.12-4
Table 3.12-3 Potential Permanent Property Acquisitions for the Build Alternative by Jurisdiction	3.12-4
Table 3.12-4 Potential Permanent Property Acquisitions for the MSF Site 1	3.12-5
Table 3.12-5 Potential Permanent Property Acquisitions for MSF Site 2	3.12-5
Table 3.12-6 Potential Business and Employee Displacements for the Build Alternative by Jurisdiction	3.12-6
Table 3.12-7 Long-Term Avoidance, Minimization, and Mitigation Measures	3.12-7
Table 3.13-1 Baseline Noise Levels Measured along the Project Corridor (in A-weighted decibel)	3.13-1
Table 3.13-2 Noise Impact Summary – No Build Alternative	3.13-3
Table 3.13-3 Operational Noise Levels at Representative Receptors (in A-weighted decibel).....	3.13-4
Table 3.13-4 Corridor-Wide Project Noise Effects	3.13-4
Table 3.13-5 Summary of Noise Levels at Historic Properties along the Project Alignment (in A-weighted decibel)	3.13-5
Table 3.13-6 Potential Sensitive Receptors along the Build Alternative Alignment (in A-weighted decibel)	3.13-5
Table 3.13-7 Potential Vibration Levels at Representative Receptors from the Build Alternative (in vibration decibel)	3.13-6
Table 3.13-8 Corridor-wide Project Vibration and Ground-Borne Noise Effects Along the Build Alternative	3.13-7

Table 3.13-9 Summary of Project Vibration Levels at Parks, Schools, and Other Institutional Receptor Sites Along the Build Alternative (in vibration decibel)	3.13-8
Table 3.13-10 Long-Term Avoidance, Minimization, and Mitigation Measures	3.13-9
Table 3.14-1 Fire Stations in the Study Area	3.14-2
Table 3.14-2 Police Stations in the Study Area.....	3.14-2
Table 3.14-3 Part I Crimes reported to Los Angeles County Sheriff’s Department within 100 feet of the Build Alternative, 2019-2023	3.14-4
Table 3.14-4 Los Angeles County Sheriff’s Department Part II Crimes Reported to Los Angeles County Sheriff’s Department within 100 feet of the Build Alternative, 2019-2023.....	3.14-4
Table 3.14-5 Number of Collisions by Severity within 100 feet of the Build Alternative, 2019-2023	3.14-5
Table 3.14-6 Number of Collisions by Party Involved within 100 feet of the Build Alternative, 2019-2023 ...	3.14-5
Table 3.14-7 Pedestrian Action Prior to Collision within 100 feet of the Build Alternative, 2019-2023	3.14-5
Table 3.14-8 Safety and Security Impact Summary – No Build Alternative	3.14-6
Table 3.14-9 Long-Term Avoidance, Minimization, and Mitigation Measures	3.14-9
Table 3.15-1 Transportation Impact Summary – No Build Alternative	3.15-3
Table 3.15-2 Build Alternative Travel Time Comparison – Average Travel Time between Proposed Stations.....	3.15-4
Table 3.15-3 Regional Transportation in 2050 Horizon Year – Build Alternative versus No Build Alternative.....	3.15-4
Table 3.15-4 The No Build Alternative and Build Alternative (2050) Conditions LOS Analysis	3.15-7
Table 3.15-5 Garfield Avenue and Washington Boulevard Intersection Analysis with Mitigation	3.15-8
Table 3.15-6 Station Parking (Existing and Build Alternative)	3.15-9
Table 3.15-7 Long-Term Avoidance, Minimization, and Mitigation Measures	3.15-11
Table 3.16-1 Utilities, Providers, and Areas Served	3.16-1
Table 3.16-2 Solid Waste Disposal Landfills	3.16-3
Table 3.16-3 Utilities Impact Summary – No Build Alternative.....	3.16-4
Table 3.16-4 Long-Term Avoidance, Minimization, and Mitigation Measures	3.16-7
Table 3.17-1 Construction Impact Summary – No Build Alternative	3.17-1
Table 3.17-2 Short-Term Construction Effects of the Build Alternative	3.17-5
Table 3.17-3 Avoidance, Minimization, and Mitigation Measures During Construction.....	3.17-31
Table 4.1 Historic Properties Protected by Section 4(f)	4-2
Table 4.2 Parks and Recreation Areas Protected by Section 4(f).....	4-3
Table 4.3 Section 4(f) Impact Summary – No Build Alternative.....	4-5
Table 4.4 <i>De Minimis</i> Impacts to Section 4(f) Resources	4-6
Table 5.1 Summary of Public Involvement from 2007-2024.....	5-1
Table 5.2 Summary of Agency Consultation and Coordination	5-3
Table 5.3 Summary of Tribal Coordination Activities	5-4
Table 5.4 Native American Representatives identified by Native American Heritage Commission in 2024	5-6

Figures

Figure ES.1 Study Area.....	ES-4
Figure 2.1 Development of the Alternatives and Screening Process	2-2
Figure 2.2 Study Area and Build Alternative	2-5
Figure 2.3 Maravilla Crossover Exhibit	2-6
Figure 2.4 Conceptual 3rd Street Modifications	2-8
Figure 2.5 Atlantic/Pomona Station Conceptual Site Plan	2-11
Figure 2.6 Atlantic/Whittier Station Conceptual Site Plan	2-12
Figure 2.7 Commerce/Citadel Station Conceptual Site Plan	2-13
Figure 2.8 Greenwood Station Conceptual Site Plan	2-14
Figure 2.9 Metro Overhead Catenary System for Light Rail Transit Vehicles	2-16
Figure 2.10 Typical Light-Rail Traction Power Substations.....	2-18
Figure 2.11 Maintenance and Storage Facility Site Options	2-22
Figure 2.12 Maintenance and Storage Facility Site 1	2-23
Figure 2.13 Maintenance and Storage Facility Site 2	2-24
Figure 2.14 Maintenance and Storage Facility Site 3	2-25
Figure 2.15 Cut-and-Cover Tunnel and Mid-Line Crossover Structures.....	2-31
Figure 2.16 Tunnel Boring Machine and Staging Area Sites.....	2-32
Figure 2.17 Northern Haul Routes.....	2-34
Figure 2.18 Southern Haul Route	2-35
Figure 3.1 Study Area	3-2
Figure 3.3-1 Biological Resources Study Area	3.3-2
Figure 3.4-1 Community Impacts Study Areas	3.4-2
Figure 3.4-2 Parks, Multi-Use Trails, and Other Community Facilities.....	3.4-10
Figure 3.7-1 Alquist-Priolo Earthquake Fault Zone Northeast of the Region.....	3.7-3
Figure 3.7-2 Liquefaction and Landslide Hazard Zone Map	3.7-4
Figure 3.7-3 Regional Geology Map	3.7-5
Figure 3.8-1 Landscape Units and Locations of Photograph Viewpoints	3.8-3
Figure 3.8-2 Visual Simulation: Washington Boulevard at Greenwood Avenue.....	3.8-10
Figure 3.9-1 Affected Properties with Documented Releases	3.9-2
Figure 3.10-1 Watersheds in the Study Area.....	3.10-2
Figure 3.10-2 Surface Water Resources near the Study Area	3.10-3
Figure 3.10-3 Federal Emergency Management Agency Flood Zones in the Study Area	3.10-5
Figure 3.11-1 Existing Land Uses within 0.25 Mile of the Build Alternative and 0.5 Mile of the Proposed Stations.....	3.11-2
Figure 3.13-1 Noise Monitoring Locations	3.13-2
Figure 3.14-1 Public Services Locations.....	3.14-3
Figure 4.1 Section 4(f) Resources	4-4

Appendices

Appendix A	References
Appendix B	Acronyms and Abbreviations
Appendix C	Agency and Tribal Consultation and Coordination/Distribution List
Appendix D	Environmental Commitments Record
Appendix E	Alternatives Considered and Project Description
Appendix F	Air Quality Impacts Report
Appendix G	Biological Resources Database Search Results
Appendix H	Community Impacts Assessment
Appendix I	Economic Impacts Report
Appendix J	Hazardous Materials Impacts Report
Appendix K	Historic, Archaeological and Tribal Resources Technical Report
Appendix L	Noise and Vibration Impacts Report
Appendix M	Real Estate and Acquisitions Impacts Report
Appendix N	Section 4(f) Evaluation
Appendix O	Transportation Impacts Report
Appendix P	Engineering Drawings
Appendix Q	Public Outreach Report
Appendix R	List of Preparers
Appendix S	Regulatory Setting Summary
Appendix T	Landscape Unit Viewpoints
Appendix U	Boring Locations