

TABLE OF CONTENTS

TITLE PAGE

SUMMARY	S-1
S.1 Preface.....	S-1
S.2 Purpose and Need.....	S-1
S.3 Project Background	S-3
S.4 Alternatives.....	S-3
S.4.1 Alternative 1 – No Action Alternative.....	S-4
S.4.2 Proposed Action	S-4
S.4.2.1 Preferred Alternative/Alternative 3 Modified.....	S-5
S.4.2.2 Candidate Build Alternatives Considered	S-9
S.5 Affected Environment.....	S-12
S.6 Environmental Impacts	S-16
S.6.1 Natural Resources	S-16
S.6.2 Cultural and Paleontological Resources.....	S-17
S.6.3 Socioeconomic Resources	S-19
S.6.4 Aesthetics and Visual Quality	S-19
S.6.5 Community Resources.....	S-20
S.6.6 Transportation.....	S-21
S.6.7 Air Quality	S-21
S.6.8 Noise and Vibration	S-21
S.6.9 Hazardous Waste and Materials	S-21
S.6.10 Indirect and Cumulative Effects.....	S-21
S.6.11 Section 4(f) Evaluation	S-22
S.6.12 Summary of Impacts	S-23
S.6.13 Summary of Mitigation and Commitments.....	S-25
S.7 Agency Coordination and Public Involvement	S-28
Figure S-1. Project Location	S-2
Figure S-2. Preferred Alternative 3 Modified.....	S-7
Figure S-3. Natural Resources	S-13
Figure S-4. Community Resources	S-14

Table S-1. Summary of Impacts.....	S-23
Table S-2. Summary of Mitigation and Commitments.....	S-25

TABLE OF CONTENTS.....

LIST OF APPENDICES	ix
LIST OF CHAPTER FIGURES.....	x
LIST OF CHAPTER TABLES.....	xi

ACRONYMS AND ABBREVIATIONS

CHAPTER 1. PURPOSE AND NEED	1-1
1.1 Purpose of the Proposed Action	1-1
1.2 Needs for the Proposed Action	1-1
1.2.1 Infrastructure Deficiencies	1-3
1.2.1.1 Roadway Pavement and Geometry	1-3
1.2.1.2 Stormwater Drainage	1-3
1.2.1.3 Roadway Structures	1-4
1.2.2 Safety	1-5
1.2.3 System Linkage.....	1-5
1.2.4 Legislation	1-6
1.3 Project Overview	1-6
1.3.1 Background	1-6
1.3.2 Description of the Project Area.....	1-7
1.4 Project Goals.....	1-8
1.5 Design Considerations.....	1-8
1.5.1 Roadway Considerations	1-9
1.5.2 Bicycle and Pedestrian Considerations	1-9
1.5.3 Stormwater Management Considerations	1-9
1.6 Relationship to Other Plans and Studies	1-9
1.6.1 District of Columbia Bicycle Master Plan	1-10
1.6.2 District of Columbia Pedestrian Master Plan	1-10
1.6.3 Rock Creek Park Trail Project	1-10
1.6.4 Rock Creek Watershed Implementation Plan	1-10
1.6.5 Comprehensive Plan of the National Capital.....	1-11
1.6.6 Rock Creek Park General Management Plan	1-11
1.6.7 Fort Circle Parks General Management Plan	1-12

1.6.8	Restoration of Unnamed Tributary to Broad Branch Environmental Assessment	1-12
1.6.9	Replacement of the 27th Street NW Bridge	1-12
1.6.10	Sewer Rehabilitation Project – Soapstone Valley Park.....	1-12
CHAPTER 2. ALTERNATIVES.....		2-1
2.1	Alternatives Development Process.....	2-1
2.2	No Action Alternative	2-3
2.3	Proposed Action.....	2-3
2.3.1	Preferred Alternative/Candidate Build Alternative 3 Modified.....	2-6
2.3.2	Candidate Build Alternatives	2-15
2.3.2.1	Candidate Build Alternative 2	2-15
2.3.2.2	Candidate Build Alternative 3	2-19
2.3.2.3	Candidate Build Alternative 4	2-22
2.4	Alternatives Eliminated from Consideration	2-26
2.4.1	Roadway Alternatives	2-26
CHAPTER 3. AFFECTED ENVIRONMENT		3-1
3.1	Natural Resources	3-1
3.1.1	Geology, Soils, and Topography	3-1
3.1.1.1	Geology	3-1
3.1.1.2	Soils.....	3-2
3.1.1.3	Topography	3-3
3.1.1.4	Agricultural Lands, Prime and Unique Farmland Soils	3-3
3.1.2	Water Resources	3-4
3.1.2.1	Drinking Water and Groundwater	3-4
3.1.2.2	Surface Water	3-6
3.1.2.3	Floodplains	3-6
3.1.2.4	Water Quality	3-6
3.1.2.5	Wetlands	3-7
3.1.2.6	Navigable Waters	3-7
3.1.2.7	Wild and Scenic Rivers	3-7
3.1.2.8	Coastal Zone.....	3-8
3.1.2.9	Chesapeake Bay Protection	3-8
3.1.2.10	Marine and Estuarine Resources	3-8
3.1.3	Wildlife including Threatened and Endangered Species	3-8
3.1.3.1	Wildlife and Waterfowl Refuges	3-10

3.1.3.2	Anadromous Fish, Trout Waters, and Shellfish	3-10
3.1.4	Vegetation.....	3-10
3.1.4.1	Trees and Shrubs	3-11
3.1.4.2	Invasive Species	3-11
3.1.4.3	Unique Ecosystems, Biosphere Reserves, World Heritage Sites.....	3-11
3.2	Cultural and Paleontological Resources	3-13
3.2.1	Area of Potential Effects	3-14
3.2.2	Archaeological Resources.....	3-14
3.2.2.1	Civil War Fort Sites and Fort Circle Park System Historic District	3-16
3.2.3	Archaeological Potential.....	3-17
3.2.4	Historic Structures.....	3-19
3.2.4.1	Rock Creek Park Historic District	3-19
3.2.4.2	Stone Pedestrian Bridge.....	3-27
3.2.4.3	DC Roadway/Infrastructure-Related Resources	3-28
3.2.4.4	Residences.....	3-31
3.2.4.5	Educational and Health Facilities.....	3-32
3.2.5	Cultural Landscapes.....	3-33
3.2.5.1	Peirce Mill Component Landscape	3-33
3.2.5.2	Historic Trails Cultural Landscape	3-34
3.2.6	Ethnographic Resources	3-34
3.2.7	Museum Collections.....	3-35
3.2.8	Indian Trust Resources and Native American Sacred Sites	3-35
3.2.9	Paleontological Resources	3-35
3.3	Socioeconomic Resources.....	3-36
3.3.1	Land Use	3-36
3.3.1.1	Sovereign Nations	3-36
3.3.2	Zoning.....	3-37
3.3.3	Demographics	3-37
3.3.4	Environmental Justice	3-37
3.3.5	Economics and Development	3-38
3.3.6	Joint Development.....	3-38
3.3.7	Community Resources.....	3-38
3.3.7.1	Emergency Services.....	3-40
3.3.7.2	Schools.....	3-40
3.3.7.3	Parks and Recreational Resources.....	3-40
3.3.7.4	Water and Sewer Authority (DC WATER)	3-41

3.3.7.5	Washington Gas.....	3-43
3.3.7.6	Potomac Electric Power Company (PEPCO).....	3-43
3.3.7.7	Verizon Communication (VERIZON) and Comcast Cable (COMCAST)	3-44
3.3.7.8	Street Lights.....	3-44
3.3.8	Aesthetics and Visual Quality	3-44
3.3.8.1	Broad Branch Road Sector.....	3-44
3.3.8.2	Rock Creek Park Sector.....	3-44
3.3.8.3	Residential Sector.....	3-47
3.3.8.4	Educational/Institutional Sector	3-48
3.3.9	Health and Safety	3-48
3.4	Transportation	3-48
3.4.1	Pedestrian and Bicycle Network	3-50
3.4.2	Road Network.....	3-51
3.4.3	Transit	3-52
3.5	Air Quality	3-52
3.5.1	Regional Conformity	3-53
3.5.2	Project-Level Carbon Monoxide (CO) Conformity.....	3-53
3.5.3	Project-level Fine Particulate Matter (PM2.5) Conformity	3-53
3.5.4	Mobile Source Air Toxics.....	3-53
3.5.5	Greenhouse Gas (GHG)	3-53
3.6	Noise and Vibration.....	3-54
3.6.1	Noise Criteria	3-54
3.6.2	Existing Conditions	3-54
3.7	Hazardous Waste/Materials	3-57
3.8	Energy Conservation	3-57

CHAPTER 4. ENVIRONMENTAL CONSEQUENCES.....4-1

4.1	Natural Resources	4-2
4.1.1	Geology, Soils, and Topography	4-2
4.1.1.1	Agricultural Lands, Prime, and Unique Farmland Soils	4-4
4.1.2	Water Resources	4-4
4.1.2.1	Drinking Water and Groundwater	4-4
4.1.2.2	Surface Water	4-5
4.1.2.3	Floodplains	4-6
4.1.2.4	Water Quality	4-8
4.1.2.5	Wetlands	4-9

4.1.2.6	Navigable Waters	4-9
4.1.2.7	Wild and Scenic Rivers	4-10
4.1.2.8	Coastal Zone.....	4-10
4.1.2.9	Chesapeake Bay Protection	4-10
4.1.2.10	Marine and Estuarine Resources	4-11
4.1.3	Wildlife including Threatened and Endangered Species	4-11
4.1.3.1	Wildlife and Waterfowl Refuges	4-13
4.1.3.2	Anadromous Fish, Trout Waters, and Shellfish	4-13
4.1.4	Vegetation.....	4-14
4.2	Cultural and Paleontological Resources	4-15
4.2.1	Archaeological Resources.....	4-16
4.2.2	Historic Structures.....	4-19
4.2.3	Cultural Landscapes.....	4-22
4.2.4	Ethnographic Resources	4-23
4.2.5	Museum Collections.....	4-23
4.2.6	Indian Trust Resources and Native American Sacred Sites	4-24
4.2.7	Paleontological Resources	4-24
4.2.8	Cultural and Paleontological Resources Summary	4-24
4.3	Socioeconomic Resources.....	4-25
4.3.1	Right-of-Way	4-25
4.3.2	Land Use	4-26
4.3.3	Sovereign Nations	4-27
4.3.4	Zoning	4-28
4.3.5	Demographics	4-28
4.3.6	Environmental Justice	4-28
4.3.7	Economics and Development	4-29
4.3.8	Joint Development.....	4-29
4.3.9	Aesthetics and Visual Quality	4-29
4.3.9.1	Scenic Easements	4-35
4.3.10	Health and Safety	4-36
4.3.11	Community Resources.....	4-37
4.3.11.1	Community Facilities	4-37
4.3.11.2	Emergency Services.....	4-37
4.3.11.3	Schools.....	4-38
4.3.11.4	Parks and Recreation Areas	4-38
4.3.11.5	NPS Park Lands	4-38

4.3.11.6	District DPR Triangle Park at Brandywine Street.....	4-40
4.3.12	Utilities and Infrastructure.....	4-40
4.4	Transportation	4-41
4.4.1	Bicycle and Pedestrian Network	4-41
4.4.2	Road Network.....	4-42
4.4.3	Transit	4-44
4.5	Air Quality	4-44
4.6	Noise and Vibration.....	4-45
4.7	Hazardous Waste and Materials.....	4-47
4.8	Energy Conservation	4-48
4.9	Construction Impacts.....	4-48
4.9.1	Land Use	4-48
4.9.2	Transportation and Access.....	4-49
4.9.3	Utilities and Infrastructure.....	4-49
4.9.4	Water Resources	4-50
4.9.5	Wildlife and Habitat.....	4-50
4.9.6	Cultural Resources	4-51
4.9.7	Air Quality.....	4-52
4.9.8	Noise.....	4-53
4.9.9	Vibration	4-54
4.9.10	Hazardous Materials.....	4-55
4.10	Indirect and Cumulative Effects	4-55
4.11	Permits and Authorizations.....	4-57
4.11.1	Hazardous Materials Sites.....	4-58
4.11.2	Water Quality.....	4-58
4.11.3	Tree Removal	4-58
4.11.4	Floodplains	4-58
4.11.5	Parks	4-59
4.12	Section 4(f) Evaluation.....	4-59
4.12.1	Introduction.....	4-59
4.12.2	Description of Purpose and Need and Proposed Action.....	4-59
4.12.2.1	Purpose and Need	4-61
4.12.2.2	Proposed Action	4-61
4.12.3	Description of Section 4(f) Properties	4-61
4.12.3.1	Rock Creek Park Historic District	4-62
4.12.3.2	Soapstone Creek Culvert	4-62

4.12.3.3	Gatehouse at La Villa Firenze	4-62
4.12.3.4	Rock Creek Park.....	4-63
4.12.3.5	Other Section 4(f) Properties	4-63
4.12.4	Description of Use and Impacts on Section 4(f) Properties	4-63
4.12.4.1	Rock Creek Park Historic District	4-64
4.12.4.2	Soapstone Creek Culvert	4-64
4.12.4.3	Gatehouse at La Villa Firenze	4-64
4.12.4.4	Rock Creek Park.....	4-64
4.12.5	Avoidance Alternatives	4-66
4.12.5.1	Rock Creek Park Historic District	4-66
4.12.5.2	Soapstone Creek Culvert	4-69
4.12.5.3	Gatehouse at La Villa Firenze	4-73
4.12.5.4	Rock Creek Park.....	4-76
4.12.6	Least Overall Harm Analysis to Section 4(f) Properties	4-81
4.12.6.1	Analysis.....	4-82
4.12.6.2	Preliminary Assessment	4-87
4.12.7	Overall Planning and Measures to Minimize Harm	4-87
4.12.8	Agency Coordination.....	4-87
4.12.9	Draft Section 4(f) Conclusion.....	4-88
4.13	Section 6(f).....	4-89
4.14	Irreversible and Irretrievable Commitment of Resources	4-89
4.15	Summary of Mitigation and Commitments	4-90
CHAPTER 5. AGENCY COORDINATION AND PUBLIC INVOLVEMENT		5-1
5.1	Agency Coordination.....	5-1
5.1.1	Agency Scoping	5-1
5.1.2	Agency Alternatives Meeting	5-1
5.1.3	DC State Historic Preservation Office	5-1
5.1.4	Joint Agency Progress Meetings.....	5-3
5.1.5	Coordination with Major Stakeholders.....	5-3
5.2	Public Involvement	5-5
5.2.1	Summary of Comments Received.....	5-6
CHAPTER 6. LIST OF PREPARERS		6-1
CHAPTER 7. FINAL ENVIRONMENTAL ASSESSMENT DISTRIBUTION		7-1
CHAPTER 8. REFERENCES.....		8-1

CHAPTER 9. INDEX	9-1
CHAPTER 10. GLOSSARY	10-1

LIST OF APPENDICES

Appendix A – Improvement Concepts.....	A-1
Appendix B – Conceptual Alignment Plans – Preferred Alternative 3 Modified	B-1
Appendix C – Project Cost Estimate for the Preferred Alternative 3 Modified	C-1
Appendix D – Area of Potential Effects for Cultural Resources	D-1
Appendix E – Detour Plans	E-1
Appendix F – Agency Scoping Letters.....	F-1
Appendix G – Section 106 Coordination	G-1
Appendix H – Public Meeting/Public Hearing Notices and Advertisements	H-1
Appendix I – Public Meeting/Public Hearing Materials.....	I-1
Appendix J – Public Meeting Transcripts.....	J-1
Appendix K – Public Hearing Comments and Responses	K-1
Appendix L – Agency Comments and Responses	L-1
Appendix M – Organization Documents and Responses.....	M-1
Appendix N – Citizen Comments and Responses	N-1
Appendix O – Section 106 Memorandum of Agreement.....	O-1
Appendix P – Stakeholder Coordination Documents	P-1

LIST OF CHAPTER FIGURES

Figure 1-1. Project Location	1-2
Figure 1-2. Deteriorated Infrastructure along Broad Branch Road.....	1-3
Figure 1-3. Examples of Drainage Issues	1-4
Figure 1-4. Soapstone Creek Culvert.....	1-4
Figure 1-5. Existing Roadway.....	1-7
Figure 2-1. “Building Blocks” to Roadway Concepts	2-2
Figure 2-2. Sovereign Nation Properties along Broad Branch Road.....	2-7
Figure 2-3. Candidate Build Alternative 3 Modified	2-8
Figure 2-4. Improvements Near the Entrance to Italian Embassy Property	2-9
Figure 2-5. Improvements Near the Entrance to Malaysian Embassy Property	2-9
Figure 2-6. Retaining Wall Along the Edge of Malaysian Embassy Property	2-10
Figure 2-7. Typical retaining wall, east side of road, facing north.....	2-12
Figure 2-8. Soapstone Creek Culvert Replacement Design.....	2-14
Figure 2-9. Candidate Build Alternative 2.....	2-15
Figure 2-10. Candidate Build Alternative 2 – Typical Sections	2-16
Figure 2-11. Candidate Build Alternative 3.....	2-19
Figure 2-12. Candidate Build Alternative 3 – Typical Sections	2-20
Figure 2-13. Candidate Build Alternative 4.....	2-22
Figure 2-14. Candidate Build Alternative 4 – Typical Sections	2-23
Figure 3-1. Water Resources	3-5
Figure 3-2. Landscapes in the Project Area	3-12
Figure 3-3. Civil War Fort Sites and the Fort Circle Park System and Rock Creek Park Historic Districts with Associated Architectural Resources in the Broad Branch Road APE	3-15
Figure 3-4. Pre-1934 Photograph of the Stone Dam across Broad Branch (E. B. Thompson, D.C. Public Library Photo Archives).....	3-18
Figure 3-5. Grant Road Bridge, looking south	3-21
Figure 3-6. Broad Branch Creek Bridge over Broad Branch, looking north	3-21
Figure 3-7. Glover (Ridge) Road Bridge over Broad Branch, looking west.....	3-21
Figure 3-8. Soapstone Creek Culvert (1898 – DDOT Archives).....	3-23
Figure 3-9. Pre-1934 Photograph of the Soapstone Creek Culvert (downstream side) without the Wing Walls (E. B. Thompson, DC Public Library Photo Archives).....	3-23
Figure 3-10. Mortared Ashlar Stone Wall with Concrete Spillway south of Broad Branch Road Bridge.....	3-26

Figure 3-11. Dry Laid Rough-cut Stone in Regular Courses (large block) between the Broad Branch Road and Ridge Road Bridges.....	3-26
Figure 3-12. Modern Metal Witness Post Co-located with the Older Stone Boundary Marker.....	3-27
Figure 3-13. Stone Pedestrian Bridge over Broad Branch stream.....	3-27
Figure 3-14. DC Roadway/Infrastructure Related Resources in the Broad Branch Road APE.....	3-29
Figure 3-15. Gatehouse for La Villa Firenze, looking northwest (pre-1935) (E. B. Thompson, DC Public Library Photo Archives).....	3-31
Figure 3-16. Gatehouse for La Villa Firenze, looking west (2011).....	3-31
Figure 3-17. Community Facilities in the Project Area	3-39
Figure 3-18. Sectors and Vantage Points.....	3-45
Figure 3-19. Traffic/Roadway Features.....	3-49
Figure 3-20. Noise Sensitive Receptor Locations.....	3-56
Figure 4-1. Project Location	4-60

LIST OF CHAPTER TABLES

Table 2-1. Encroachment on Rock Creek Park	2-11
Table 2-2. Retaining Walls – Candidate Build Alternative 3 Modified (measurements in feet).....	2-12
Table 2-3. Retaining Walls – Candidate Build Alternative 2 (measurements in feet)	2-17
Table 2-4. Retaining Walls – Candidate Build Alternative 4 (measurements in feet)	2-25
Table 3-1. Soil Types within 500 feet of Broad Branch Road	3-2
Table 3-2. Archaeological Resources within 500 feet of the Broad Branch Road Project Area.....	3-16
Table 3-3. Rock Creek Park Historic District Contributing Elements in the Project Area	3-20
Table 3-4. Stormwater Outfalls Associated with Stone Headwalls or Stone Retaining Walls in Rock Creek Park.....	3-24
Table 3-5. Intact Retaining Wall Segments Along Broad Branch	3-24
Table 3-6. Cultural Resources Associated with Water Control Features in the Project Area	3-30
Table 3-7. District of Columbia and Area Population.....	3-37
Table 3-8. Intersection Turning Movement Counts	3-52
Table 3-9. FHWA Noise Abatement Criteria.....	3-54
Table 3-10. Noise Sensitive Receptor Measurement Levels	3-55
Table 3-11. Common Noise Levels	3-55
Table 3-12. Listed Hazardous Waste Sites	3-57

Table 4-1. Areas of Disturbance (in square feet).....	4-3
Table 4-2. Stream Limits of Disturbance (in linear feet)	4-5
Table 4-3. Floodplain Encroachments (impervious area in square feet)	4-7
Table 4-4. Retaining Walls (in linear feet) – Potential Impediments to Wildlife Movements.....	4-13
Table 4-5. Trees Impacted (4 Inches in DBH or greater).....	4-15
Table 4-6. Additional Right-of-Way Requirements (square feet).....	4-26
Table 4-7. Areas of Disturbance – Foreign Embassy Residences (Square Feet)	4-27
Table 4-8. Park Property Impacts.....	4-38
Table 4-9. Potential Utility Relocations (Linear Feet within Limits-of-Disturbance)	4-41
Table 4-10. Existing and Year 2030 Intersection Levels of Service (LOS).....	4-43
Table 4-11. Summary of Cumulative Effects.....	4-56
Table 4-12. Summary of Use of Section 4(f) Properties.....	4-65
Table 4-13. Balancing Factors Determining Least Overall Harm Alternative and Systematic Rating System	4-83
Table 4-14. Summary of Mitigation and Commitments	4-90
Table 5-1. Public Comments Received During Project Scoping Phase.....	5-6
Table 5-2. Public Comments Received During Alternatives Development Phase	5-7
Table 5-3. Comments Received During EA Comment Period.....	5-8

ACRONYMS AND ABBREVIATIONS

AASHTO	American Association of State Highway and Transportation Officials
ACHP	Advisory Council on Historic Preservation
ADA	Americans with Disabilities Act of 1990
ADT	Average Daily Traffic
AIRFA	American Indian Religious Freedom Act of 1978
ANC	Advisory Neighborhood Commission
APE	Area of Potential Effects
BLM	Bureau of Land Management
BMP	Best Management Practices
BOR	Bureau of Reclamation
CAA	Clean Air Act of 1970
CAAA	1990 Clean Air Act Amendments
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFA	Commission of Fine Arts
CFR	Code of Federal Regulations
cf	Cubic Feet
cfs	Cubic feet per second
CLRP	Constrained Long Range Plan
CO	Carbon Monoxide
CWA	Clean Water Act
CZARA	Coastal Zone Act Reauthorization Amendments of 1990
CZMA	Coastal Zone Management Act

CZMP	Coastal Zone Management Plan
dBA	Decibels
DBH	Diameter at Breast Height
DCHPO	District of Columbia Historic Preservation Office
DCMR	District of Columbia Municipal Regulations
DCOP	District of Columbia Office of Planning
DC Water	District of Columbia Water and Sewer Authority (formerly WASA)
DDOE	District Department of the Environment
DDOH	DC Department of Health
DDOT	District Department of Transportation
DEQ	Department of Environmental Quality
DO	Director's Order
DPR	District of Columbia Department of Parks and Recreation
District	District of Columbia
EA	Environmental Assessment
EJ	Environmental Justice
EO	Executive Order
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FONSI	Finding of No Significant Impact
FY	Fiscal Year
GHG	Green House Gases
GIS	Geographic Information System
GMP	General Management Plan
IPaC	Information, Planning and Conservation

LID	Low Impact Development
LOS	Level of Service
LWCF	Land and Water Conservation Fund
MOA	Memorandum of Agreement
MOT	Maintenance of Traffic
mph	Miles per Hour
MSAT	Mobile Source Air Toxics
MUTCD	Manual on Uniform Traffic Control
MWCOG	Metropolitan Washington Council of Governments
NAAQS	National Ambient Air Quality Standards
NAGRA	Native American Graves Protection and Repatriation Act of 1990
NCPC	National Capital Planning Commission
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NOAA	National Oceanic and Atmospheric Administration
NOx	Nitrogen Oxides
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NRI	National Rivers Inventory
NWI	National Wetlands Inventory
ORV	Outstandingly Remarkable Values
OWJ	Owner with Jurisdiction
PEPCO	Potomac Electric Power Company
PM _{2.5}	Particulate Matter less than or equal to 2.5 microns
PM ₁₀	Particulate Matter less than or equal to 10 microns

PRPA	Paleontological Resources Protection Act of 2009
RCPHD	Rock Creek Park Historic District
SDWA	Safe Drinking Water Act of 1974
sf	Square Feet
SIP	State Implementation Plan
SOF	Statement of Findings
SUP	Special Use Permit
SWDC	Special Waters of the District of Columbia
TOJ	Transfer of Jurisdiction
TIP	Transportation Improvement Program
TMDL	Total Maximum Daily Load
USACE	U.S. Army Corps of Engineers
USC	United States Code
USDA	U.S. Department of Agriculture
USDOT	U.S. Department of Transportation
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VOC	Volatile Organic Compound
vpd	Vehicles Per Day
WMATA	Washington Metropolitan Area Transit Authority
WOUS	Waters of the United States
WPD	Watershed Protection Division