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Accipiter striatus (sharp shinned hawk):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=106313&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=106313&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=106313&selectedIndexes=102890&selectedIndexes=100157&menuselectfooter=none



Cardamine flagellifera (running bittercress):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=PDBRAoKoEo&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=PDBRAoKoEo&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=PDBRAoKoEo&menuselectfooter=none

Carpiodes velifer (highfin carpsucker):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=106190&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=106190&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=106190&menuselectfooter=none

Contopus cooperi (olive sided flycatcher)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=102228&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=102228&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=102228&menuselectfooter=none

Corvus corax (common raven):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=ABPAVioio&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=ABPAVioio&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=ABPAVioio&menuselectfooter=none

Cycleptus elongatus (blue sucker):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=AFCJCo40io&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=AFCJCo40io&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=AFCJCo40io&menuselectfooter=none

Desmognathus wrighti (pigmy salamander)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=102489&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=102489&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=102489&menuselectfooter=none



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Falco peregrinus (peregrine falcon):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=ABNKDo6070&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=ABNKDo6070&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=ABNKDo6070&selectedIndexes=ABNKDo6071&selectedIndexes=ABNKDo6073&selectedIndexes=ABNKDo6074&menuselectfooter=none

Geum radiatum (spreading avens):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=PDROSoSoCo&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=PDROSoSoCo&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=PDROSoSoCo&menuselectfooter=none

Haliaeetus leucocephalus (bald eagle)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=104470&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=104470&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=104470&selectedIndexes=106134&menuselectfooter=none

Hymenophyllum tayloriae (gorge filmy fern)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=132153&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=132153&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=132153&menuselectfooter=none

Limnophylis swainsonii (Swainson's warbler)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=103514&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=103514&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=103514&menuselectfooter=none



Lysimachia fraseri (Fraser loosestrife)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=154093&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=154093&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=154093&menuselectfooter=none

Microhexura montivaga (spruce- fir moss spider):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=ILARA33010&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=ILARA33010&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=ILARA33010&menuselectfooter=none

Myotis sodalis (Indiana bat):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=AMACCo100&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=AMACCo100&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=AMACCo100&menuselectfooter=none

Percina aurantiaca (tangerine darter)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=100432&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=100432&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=100432&menuselectfooter=none

Percina macrocephala (longhead darter):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=AFCQCo4120&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=AFCQCo4120&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=AFCQCo4120&menuselectfooter=none

Phoxinus tennesseensis (Tennessee dace)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=100432&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=100432&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=100432&menuselectfooter=none



[rt=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=105508&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=105508&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=105508&menuselectfooter=none](http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=105508&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=105508&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=105508&menuselectfooter=none)

Pituophis melanoleucus melanoleucus (northern pine snake):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=ARADB26012&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=ARADB26010&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=ARADB26010&selectedIndexes=ARADB26011&selectedIndexes=ARADB26012&selectedIndexes=ARADB26013&menuselectfooter=none

Plethobasus cooperianus (orange- footed pearly mussel):

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=IMBIV34020&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=IMBIV34020&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=IMBIV34020&menuselectfooter=none

Sphyrapicus varius (Yellow bellied sapsucker)

http://www.natureserve.org/explorer/servlet/NatureServe?menuselect=none&sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=102671&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=102671&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=102671&menuselectfooter=none

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LIST OF ACRONYMS AND ABBREVIATIONS

ADT	average daily traffic
APE	area of potential effect
ARPA	Archaeological Resources Protection Act
ASMIS	Archaeological Sites Management Information System
BOD	biological oxygen demand
CCC	Civilian Conservation Corps
CEQ	Council on Environmental Quality
cmbs	centimeters below surface
dbh	diameter at breast height
DOI	Department of the Interior
DEIS	Draft Environmental Impact Statement
District	Elkmont Historic District
EA	Environmental Assessment
EF	emission factor
EPA	Environmental Protection Agency
EPC	Elkmont Preservation Committee
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FHBM	Flood Hazard Boundary Maps
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Maps
FONSI	Finding of No Significant Impact
ft	feet
ft ³	cubic feet
gpd	gallons per day
HBN	Hydrologic Benchmark Data Network
HI	human influence
I/I	inflow and infiltration
km	kilometers
lf	lineal feet
LOS	level of service
m	meters
m ³	cubic meters
mi	miles
MAL	montane alluvial forest
NAC	noise abatement criteria
NADP	National Atmosphere Deposition Program
NIS	non- indigenous species
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NHPA	National Historic Preservation Act
NPS	National Park Service
NRHP	National Register of Historic Places
O & M	operation and maintenance



ONRW	Outstanding National Resource Waters
Park	Great Smoky Mountains National Park
ppb	parts per billion
ptsf	percent time spent following
ROD	Record of Decision
RV	recreational vehicle
s	seconds
SCES	Sevier County Electric System
SEAC	Southeast Archeological Center
SHPO	State Historic Preservation Officer
T & E	threatened and endangered
TDEC	Tennessee Department of Environmental Conservation
TDOA	Tennessee Division of Archaeology
THC	Tennessee Historical Commission
TN	Tennessee
TNC	The Nature Conservancy
TNM	traffic noise model
tpd	tons per day
TWRA	Tennessee Wildlife Resources Agency
USDI	United States Department of the Interior
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
VMT	number of vehicles times distance
vph	vehicles per hour
VWM	volume- weighted mean
WPC	Water Pollution Control (Division of TDEC)
YOY	young- of- year



GLOSSARY

Adverse (Section 106 usage): alteration, either direct or indirect, to the characteristics of a historic property qualifying it for inclusion in or eligibility for the National Register of Historic Places, in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association.

Affected environment: a description of the existing environment to be affected by the proposed action (40 CFR 1502.15).

Alternative: a reasonable method of addressing the problem identified or satisfying the stated need (40 CFR 1502.4).

Best Management Practices: practices developed by the State of Tennessee (and all other states) to meet the objectives of the Clean Water Act. These objectives include "to restore and maintain the chemical, physical and biological integrity of the Nation's waters". The State has developed practical non-regulatory guidelines to minimize the impact of land management activities on the environment. The guidelines provide practical methods to use in the field to eliminate or minimize the potential for sedimentation, contamination, and eutrophication (nutrient loading) of surface waters.

Building: a house, barn, hotel, or similar construction, created principally to shelter any form of human activity. "Building" may also be used to refer to a historically and functionally related unit, such as a house and garage.

Contributing: refers to a resource that adds to the historic associations, historic architectural qualities, or archeological values for which a property is significant because 1) it was present during the period of significance, relates to the documented significance of the property, and possesses historic integrity or is capable of yielding important information about the period; or 2) it independently meets the National Register criteria.

Council on Environmental Quality (CEQ): established under Title II of NEPA to develop Federal agency-wide policy and regulations for implementing the procedural provisions of NEPA, resolve interagency disagreements concerning proposed major Federal actions, and to ensure that Federal agency programs and procedures are in compliance with NEPA.

Cultural landscape: a geographic area, including both cultural and natural resources and the wildlife or domestic animals therein, associated with a historic event, activity, or person or exhibiting other cultural or aesthetic values.

Cumulative effect: the incremental environmental impact or effect of the proposed action, together with impacts of past, present and reasonably foreseeable future actions, regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative effects can result from individually minor but collectively significant actions taking place over a period of time (40 CFR 1508.7).



District: a significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development.

Effect (Section 106 usage): alteration to the characteristics of a historic property qualifying it for inclusion in or eligibility for the National Register of Historic Places.

Environmental consequences: environmental effects of project alternatives, including the proposed action, any adverse environmental effects which cannot be avoided, the relationship between short- term uses of the human environment, and any irreversible or irretrievable commitments of resources that would be involved if the proposal should be implemented (40 CFR 1502.16).

Environmental Impact Statement (EIS): a detailed written statement required by section 102(2)(C) of NEPA, analyzing the environmental impacts of a proposed action, adverse effects of the project that cannot be avoided, alternative courses of action, short- term uses of the environment versus the maintenance and enhancement of long- term productivity, and any irreversible or irretrievable commitment of resources (40 CFR 1508.1).

Environmental Assessment (EA): a concise public document, prepared in compliance with NEPA, that briefly discusses the purpose and need for an action, alternatives to such action, and provides sufficient evidence and analysis of impacts to determine whether to prepare an environmental impact statement or finding of no significant impact (40 CFR 1508.9).

Finding of No Significant Impact (FONSI): a document prepared in compliance with NEPA, supported by an environmental assessment, that analyzes whether a Federal action will have no significant impact on the human environment and for which an environmental impact statement, therefore, will not be prepared (40 CFR 1508.13).

Historic: refers to a resource that is 50 years of age or older.

Impact (Effect): a direct result of an action which occurs at the same time and place; or an indirect result of an action which occurs later in time or in a different place and is reasonably foreseeable; or the cumulative results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions (40 CFR 1508.8).

Information potential (archeology): the ability to provide data relevant to one or more important research questions.

Integrity (archeology): the presence of artifacts and deposits in their original (or slightly modified) depositional context.

Locus/loci (archeology): a distinct area(s) within an archeological site in Elkmont Historic District that has been surveyed and found to contain cultural deposits relating to one or more prehistoric American Indian or historic period occupations.



Mitigation: planning actions taken to avoid an impact altogether, to minimize the degree or magnitude of the impact, reduce the impact over time, rectify the impact, or compensate for the impact (40 CFR 1508.20).

National Register of Historic Places: the official Federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture.

Noncontributing: refers to a resource that does not add to the historic architectural qualities, historic associations, or archeological values for which a property is significant because 1) it was not present during the period of significance or does not relate to the documented significance of the property; 2) due to alterations, disturbances, additions, or other changes, it no longer possesses historic integrity or is capable of yielding important information about the period; or 3) it does not independently meet the National Register criteria.

Notice of Intent: a notice that an environmental impact statement will be prepared and considered (40 CFR 1508.22).

Preservation: the act or process of applying measures necessary to sustain the existing form, integrity, and materials of a historic property. Work, including preliminary measures to protect and stabilize the property, generally focuses upon the ongoing maintenance and repair of historic materials and features rather than extensive replacement and new construction.

Reconstruction: the act or process of depicting, by means of new construction, the form, features, and detailing of a non-surviving site, landscape, building, structure, or object for the purpose of replicating its appearance at a specific period of time and in its historic location.

Record of Decision (ROD): a concise public record of decision prepared by the Federal agency, pursuant to NEPA that contains a statement of the decision, identification of all alternatives considered, identification of the environmentally preferred alternative, a statement as to whether all practical means to avoid or minimize environmental harm from the alternative selected have been adopted (and, if not, why they were not), and a summary of monitoring and enforcement for any mitigation (40 CFR 1505.2).

Regeneration; Natural regeneration: a natural supplement to active restoration; plant growth originating from seeds in the soil seed bank within disturbed sites and also from adjacent native seed sources.

Rehabilitation (cultural resources): the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features that convey its historical, cultural, or architectural values.

Restoration (cultural resources): the act or process of accurately depicting the form, features, and character of a property as it appeared at a particular period of time by means of the removal of features from other periods in its history and reconstruction of missing features from the restoration period.



Restoration (vegetation): the active planting of native plants in an effort to reestablish the closest semblance of the original plant communities.

Revegetation: any type of planting regardless of the species origin (could include plants not native to the immediate area or nonnative species). Revegetation of this type will not be conducted in Elkmont Historic District.

Section 106: Refers to Section 106 of the National Historic Preservation Act of 1966, which requires federal agencies to take into account the effects of their proposed undertakings on properties included or eligible for inclusion in the National Register of Historic Places and give the Advisory Council on Historic Preservation a reasonable opportunity to comment on the proposed undertakings.

Site (archeology): in Elkmont Historic District, a section that has been defined for management concerns, and which is bounded by topographic or cultural features. Each site may contain a number of distinct archeological loci.

Structure: to distinguish from buildings, this term is used for those functional constructions made usually for purposes other than creating human shelter. Examples of structures include bridges, dams and gazebos.

Tiering: the coverage of general matters in broader environmental impact statements with subsequent narrower statements of environmental analysis, incorporating by reference, the general discussions and concentrating on specific issues (40 CFR 1508.28).

Unsurveyed area (archeology): a part of the Elkmont Historic District that has not been systematically surveyed for archeological resources.

