# Terrestrial Mollusk Surveys and Species Habitat Assessments for Olympic National Park, Queets Area, DNR Road 010 Project



Hemphillia malonei

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# TABLE OF CONTENTS

TABLE OF CONTENTS	2
INTRODUCTION	3
ACKGROUND  IETHODS  Conducting Surveys  Mollusks  Other Species of Concern  Data Collection for Mollusks  ESULTS  Mollusks  Potential Suitable Habitat for Other Species of Concern  ITERATURE CITED  PPENDIX 1	3
NTRODUCTION  ACKGROUND  IETHODS  Conducting Surveys	3
Conducting Surveys	4
Other Species of Concern	5
RESULTS	5
Mollusks	5
Potential Suitable Habitat for Other Species of Concern	5
LITERATURE CITED	6
APPENDIX 1	7
APPENDIX 2	8

#### **INTRODUCTION**

Olympic National Park has proposed to reopen DNR Road 010 through lands managed by the U.S. Forest Service Region 6 (USFS R6) near the Queets River Road in Jefferson County, Washington. According to USFS regulations, surveys for survey and manage species must be conducted prior to any ground disturbing activities. To fulfill these regulations, Hamer Environmental conducted surveys for terrestrial mollusks listed by the USFS as survey and manage species for the Olympic National Park. The site was also examined for the presence of potential suitable habitat for other listed species on the Olympic National Forest.

The selected site is on Olympic National Forest lands that may be impacted by the road reopening. The survey site was located along DNR Road 010, within T24N R10½ W, Section 11 (Figure 1).

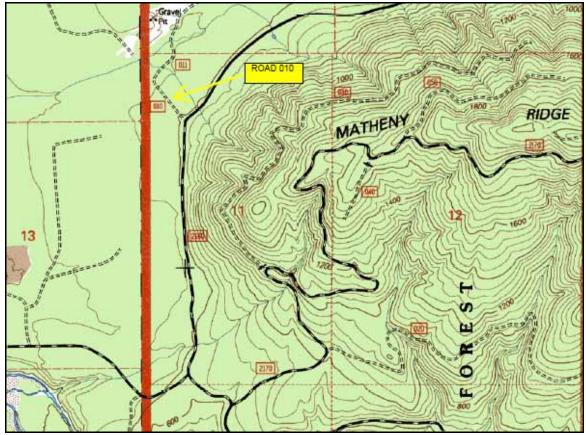
#### **BACKGROUND**

#### **Survey and Manage Species**

Species designated as Survey and Manage Species (S&M) are species considered to be "at risk" under the Northwest Forest Plan. The list of designated species is reviewed annually by the USFS and Bureau of Land Management (BLM). According to the Northwest Forest Plan, surveys for S&M species must be conducted prior to any habitat disturbing activity. We used the S&M list updated in June 2002 for this survey effort (Appendix 1).

#### **METHODS**

The site to be surveyed for the Olympic National Park road reopening project was identified and delineated in the field by Nancy Hendricks, an Environmental Protection Specialist for Olympic National Park. The road was flagged in orange/white polka dot flagging and surveys were conducted where the proposed road crossed through lands managed by Olympic National Forest. Olympic National Forest boundaries were clearly marked with spray painted trees and boundary plaque markers in the field. Additionally, we located nearby section markers in the field to confirm the proper survey segment start and end points.



**Figure 1.** Location of terrestrial mollusk surveys and habitat assessments for additional species. WDNR Road 010; T24N R10½ W, Section 11.

#### **Conducting Surveys**

#### Mollusks

We surveyed the road segment utilizing both sample area and point search methods as described in the publication "Survey Protocol for Survey and Manage Terrestrial Mollusk Species from the Northwest Forest Plan" (Duncan et al. 2003). We conducted all surveys using the environmental constraints described in the protocol. We conducted two survey visits spaced 3 weeks apart. Point search sampling consisted of opportunistic searches conducted while walking the survey route between sample areas.

- o The short point searches included rolling over small logs, looking under bits of bark, rocks, vegetation and debris, picking through leaf litter, and searching the leaf litter at the base of logs, shrubs and ferns.
- O The sample area searches included the examination of all large debris within the sample area, searching through and under several shrubs and other plants, sorting through concentrations of leaf and needle litter, the examination of smooth lower trunks, leaves and branches of hardwood trees, and the rolling back of moss mats to examine the undersides and the mineral soil below.

#### Other Species of Concern

In addition to surveys for terrestrial mollusks, we also surveyed the segment for the presence of potential suitable habitat for all federally listed species on the Olympic National Forest (Appendix 2). These species included those listed by the U.S. Fish and Wildlife Service (USFWS) as endangered, threatened, candidates or species of concern. It also included species listed by the USFS R6 as sensitive, survey and manage, and management indicators (Appendix 2). We used the publication, "Wildlife-Habitat Relationships in Oregon and Washington" (Johnson and O'Neil 2001), as a reference to determine the habitat associations for each species. We then searched for the presence of these habitat types within the project area. A complete list of these species, their federal status and whether suitable habitat is present in or adjacent to the project area can be found in Appendix 2.

#### **Data Collection for Mollusks**

Thomas Mohagen of Hamer Environmental L.P. conducted surveys on 25 September and 20 October 2006 and compiled a complete list of mollusks found for the survey segment. We completed a survey documentation form for the segment. All mollusks were identified to species.

#### **RESULTS**

#### Mollusks

We found a total of ten *Haplotrema vancouverense* and five *Vespericola columbianus* during the two visits to the survey segment. We found no S&M species within the areas surveyed (Table 1).

**Table 1.** Mollusk survey results for the single survey segments during 19 May and 21 June, 2006 (see datasheets for more detailed information).

	Total <i>Haplotrema</i> vancouverense	Total Vespericola columbianus	Total S&M:
Visit 1	4	1	0
Visit 2	6	4	0

#### **Potential Suitable Habitat for Other Species of Concern**

A comprehensive list can be found in Appendix 2.

#### LITERATURE CITED

Duncan, N., T. Burke, S. Dowlan and P. Hohenlohe. 2003. *Survey Protocol for Survey and Manage Terrestrial Mollusk Species from the Northwest Forest Plan*. Bureau of Land Management, Portland, Oregon.

Johnson D.H. and T. A. O'Neil (Manag. Dirs.). 2001. Wildlife-Habitat Relationships in Oregon and Washington. Oregon State University Press, Corvallis, Oregon.

## **APPENDIX 1**

# Species Included in Survey and Manage Standards and Guidelines and Category Assignment (June 2002): MOLLUSKS

Category Assignment (June 2002): MOLLUSKS					
TAXA GROUP					
Species	Category				
MOLLUSKS					
Ancotrema voyanum	Е				
Cryptomastix devia	A				
Cryptomastix hendersoni	A				
Deroceras hesperium	В				
Fluminicola n. sp. 3	A				
Fluminicola n. sp. 11	A				
Fluminicola n. sp. 14	A				
Fluminicola n. sp. 15	A				
Fluminicola n. sp. 16	A				
Fluminicola n. sp. 17	A				
Fluminicola n. sp. 18	A				
Fluminicola n. sp. 19	A				
Fluminicola n. sp. 20	A				
Fluminicola seminalis	A				
Helminthoglypta hertleini	Е				
Helminthoglypta talmadgei	D				
Hemphillia burringtoni	Е				
Hemphillia glandulosa, In WA Western Cascades Physiographic Province	Е				
Hemphillia malonei, Washington	C				
Hemphillia pantherina	В				
Juga (O) n. sp. 2	A				
Juga (O) n. sp. 3	A				
Lyogyrus n. sp. 1	A				
Lyogyrus n. sp. 2	A				
Lyogyrus n. sp. 3	A				
Megomphix hemphilli, South of south boundary of Lincoln, Benton, and Linn Counties, Oregon	F				
Megomphix hemphilli, North of south boundary of Lincoln, Benton, and Linn Counties, Oregon	A				
Monadenia chaceana	В				
Monadenia fidelis klamathica	В				
Monadenia fidelis minor	Е				
Monadenia fidelis ochromphalus	В				
Monadenia troglodytes troglodytes	A				
Monadenia troglodytes wintu	A				
Oreohelix n. sp.	A				
Pristoloma articum crateris	В				
Prophysaon coeruleum, In California and Washington	A				
Trilobopsis roperi	A				
Trilobopsis tehamana	A				
Vertigo n. sp.	A				
Vespericola pressleyi	A				
Vespericola shasta	A				
Vorticifex n. sp. 1	Е				

# **APPENDIX 2**

Common Name	Scientific Name	Status USFWS	Status USFS	USFS S & M Status	Status WDFW	Habitat Present in or Adjacent to Proposed Units		Species Present in or Adjacent to Proposed Units	
						In	Adjacent	In	Adjacent
USFWS LISTED SPECIES									
Bald eagle	Haliaeetus leucocephalus	FT	MIS		ST				
Marbled murrelet	Brachyramphus marmoratus	FT			ST				
Marbled murrelet critical habitat		DCH							
Northern spotted owl	Strix occidentalis caurina	FT	MIS		SE				
Northern spotted owl critical habitat		DCH							
USFWS CANDIDATE SPECIES									
Mazama (western) pocket gopher	Thomomys mazama melanops	FC			SC				
USFWS SPECIES OF CONCERN									
Newcomb's littorine snail	Algamorda newcombiana	FSoC			SC				
Valley silverspot butterfly	Speyeria zerene bremnerii	FSoC			SC				
Olympic torrent salamander	Rhyacotriton olympicus	FSoC	R6		SM	X	X		
Van Dyke's salamander	Plethodon vandykei	FSoC	R6		SC	X	X		
Cascades frog	Rana cascadae	FSoC			SM	X	X		
Tailed frog	Ascaphus truei	FSoC			SM	X	X		
Western toad	Bufo boreas	FSoC			SC	X	X		
Aleutian Canada goose	Branta canadensis leucopareia	FSoC			ST				
Northern goshawk	Accipiter gentilis	FSoC			SC	X	X		
Peregrine falcon	Falco peregrinus	FSoC	R6		SS	X	X		
Olive-sided flycatcher	Contopus cooperi	FSoC			SoC	X	X		
Oregon vesper sparrow	Pooecetes gramineus affinis	FSoC			SC				
Long-eared myotis	Myotis evotis	FSoC	MR		SM				
Long-legged myotis	Myotis volans	FSoC	MR		SM		X		
Pacific Townsend's big-eared bat	Corynorhinus townsendii townsendii	FSoC	R6, MR		SC				

Common Name	Scientific Name	Status USFWS/ NMFS	Status USFS	USFS S and M Status	Status WDFW	Habitat Present in or Adjacent to Proposed Project		Species Present in or Adjacent to Proposed Project	
						In	Adjacent	In	Adjacent
USFS R6 SENSITIVE SPECIES									
Puget Oregonian snail	Cryptomastix devia		R6	A	S2	X	X		
Burrington's jumping slug	Hemphillia burringtoni		R6	Е	S1S2	X	X		
Malone's jumping slug	Hemphillia malonei		R6	С	S1S2	X	X		
Blue-gray taildropper	Prophysaon coeruleum		R6	A	S2	X	X		
Hoko vertigo	Vertigo n. sp.		R6	A	S1	X	X		
Pacific fisher (extirpated)	Martes pennanti	FC	R6		SE				
Pacific Townsend's big-eared bat	Corynorhinus townsendii townsendii	FSoC	R6, MR		SC				
Mazama (western) pocket gopher	Thomomys mazama melanops	FC			SC				
Cope's Giant Salamander	Dicamptodon copei		R6			X	X		
Olympic torrent salamander	Rhyacotriton olympicus		R6			X	X		
Van Dyke's salamander	Plethodon vandykei		R6		SC	X	X		
Common loon	Gavia immer		R6		S				
American peregrine falcon	Falco peregrinus anatum		R6		SE	X	X		
USFS MANAGEMENT INDICATOR SPECIES									
Bald eagle	Haliaeetus leucocephalus	FT	MIS		ST				
Northern spotted owl	Strix occidentalis caurina	FT	MIS		SE		_		
Pileated woodpecker	Dryocopus pileatus		MIS		SC	X	X		
Primary cavity excavators			MIS						
Columbian black- tailed deer	Odocoileus hemionus columbianus		MIS			X	X		
Roosevelt elk	Cervus canadensis roosevelti		MIS		SoC	X	X		
Pine marten	Martes martes		MIS			X	X		
USFS SURVEY and MANAGE									
Puget Oregonian snail	Cryptomastix devia		R6	A	_	X	X	_	

Evening fieldslug	Deroceras hesperium	S&M	$B^3$		X	X	
Malone jumping slug	Hemphillia malonei	R6	C		X	X	
Burrington's jumping slug	Hemphillia burringtoni	R6	Е	S1S2	X	X	
Hoko vertigo	Vertigo n. sp.	R6	A		X	X	
Blue-gray taildropper	Prophysaon coeruleum	R6	A		X	X	

#### FEDERAL SPECIES STATUS

\* = More information needed to assess distribution of species within Forest Service boundaries

FE= Federally listed as endangered species, as of 09/05/03, USFWS, Western Washington Office

FT= Federally listed as threatened species, as of 09/05/03, USFWS, Western Washington Office

FSoC= Federally proposed, Candidate Spp or Spp of Concern: as of 09/05/03, USFWS, Western Washington Office

DCH= Federal Designated Critical Habitat, as of 09/05/03, USFWS, Western Washington Office

FC= Federal Candidate, as of 09/05/03, USFWS, Western Washington Office

C2= For USDC National Marine Fisheries Service, species is undergoing a status review

#### FOREST SERVICE SPECIES STATUS

MIS= Management Indicator Species: Olympic National Forest Care and Resource Mgt. Plan, 1990

R6= Region 6, USFS, Sensitive Species, 11/28/00: Updated Regional Forester's Sensitive Animal List

S&M= Survey & Manage Species, 6/17/03: Project Review Form for Survey and Manage Species

#### SURVEY AND MANAGE SPECIES STATUS

A= Rare; Pre-disturbance surveys practical

C= Uncommon; Pre-disturbance surveys practical

B<sup>3</sup>= Rare; Pre-disturbance surveys not practical; Equivalent-effort pre-disturbance surveys

#### STATE SPECIES STATUS

SE= Listed as endangered by the WDFW (WAC 232-12-014)

ST= Listed as threatened by the WDFW (WAC 232-12-011)

SC= State Candidate species are those fish and wildlife species that will be reviewed by the department for possible listing as:

Endangered, Threatened, or Sensitive according to the process and criteria defined in WAC-232-12-297

SS= Listed as State Sensitive by the WDFW ((WAC 232-12-011)

SM= State Monitored