

Post-Delisting Monitoring Overview

A post-delisting monitoring plan was developed in partnership with the BLM. The post-delisting monitoring has been designed to verify that San Benito evening-primrose remains secure from risk of extinction after its removal from the Federal List of Endangered and Threatened Plants by detecting changes in population trends of known occurrences. The Act has a minimum post-delisting monitoring requirement of 5 years; however, if populations decline in abundance past the defined threshold in the post-delisting monitoring plan, or a substantial new threat arises, post-delisting monitoring may be extended or modified and the status of the species will be reevaluated.

Post-delisting monitoring will occur for 5 years with the first year of monitoring beginning the first spring following the publication of the final delisting rule. Post-delisting monitoring will annually census aboveground individuals within the 27 occurrences listed in the Recovery Plan, which are also the 27 occurrences that have been used to evaluate population trends in the final rule. Annual monitoring of disturbance frequency and intensity will also occur annually in conjunction with the annual census. Seed bank quantification will occur in years 2 and 5 to determine if there has been a loss of viable seed across the range of habitat types. Woody vegetation structure will be evaluated in year 5 and compared to data collected in 2020, the year the proposed rule was published, to evaluate potential changes in habitat suitability across habitat types and historical disturbance levels. A final post-delisting monitoring plan for the species can be found at <https://www.regulations.gov> under Docket No. FWS-R8-ES-2019-0065. We will work closely with our partners to maintain the recovered status of the San Benito evening-primrose and ensure post-delisting monitoring is conducted and future management strategies are implemented (as necessary) to benefit the San Benito evening-primrose.

Required Determinations*National Environmental Policy Act (42 U.S.C. 4321 et seq.)*

We have determined that environmental assessments and environmental impact statements, as defined under the authority of the National Environmental Policy Act (42 U.S.C. 4321 et seq.), need not be prepared in connection with determining a species' listing status under the Endangered Species Act. We published a notice outlining our reasons

for this determination in the **Federal Register** on October 25, 1983 (48 FR 49244). This position was upheld by the U.S. Court of Appeals for the Ninth Circuit (*Douglas County v. Babbitt*, 48 F.3d 1495 (9th Cir. 1995), cert. denied 516 U.S. 1042 (1996)).

Government-to-Government Relationship With Tribes

In accordance with the President's memorandum of April 29, 1994 (Government-to-Government Relations with Native American Tribal Governments; 59 FR 22951), Executive Order 13175 (Consultation and Coordination with Indian Tribal Governments), and the Department of the Interior's manual at 512 DM 2, we readily acknowledge our responsibility to communicate meaningfully with recognized Federal Tribes on a government-to-government basis. In accordance with Secretarial Order 3206 of June 5, 1997 (American Indian Tribal Rights, Federal-Tribal Trust Responsibilities, and the Endangered Species Act), we readily acknowledge our responsibilities to work directly with Tribes in developing programs for healthy ecosystems, to acknowledge that Tribal lands are not subject to the same controls as Federal public lands, to remain sensitive to Indian culture, and to make information available to Tribes. There are no Tribal lands associated with this final rule, and we did not receive any comments on the proposed rule from Tribes.

References Cited

A complete list of all references cited in this final rule is available on the internet at <https://www.regulations.gov> under Docket No. FWS-R8-ES-2019-0065, or upon request from the Ventura Fish and Wildlife Office (see **FOR FURTHER INFORMATION CONTACT**).

Authors

The primary authors of this final rule are the staff members of the Ventura Fish and Wildlife Office in Ventura, California, in coordination with the Pacific Southwest Regional Office in Sacramento, California.

List of Subjects in 50 CFR Part 17

Endangered and threatened species, Exports, Imports, Plants, Reporting and recordkeeping requirements, Transportation, Wildlife.

Regulation Promulgation

Accordingly, we hereby amend part 17, subchapter B of chapter I, title 50 of the Code of Federal Regulations, as set forth below:

PART 17—ENDANGERED AND THREATENED WILDLIFE AND PLANTS

■ 1. The authority citation for part 17 continues to read as follows:

Authority: 16 U.S.C. 1361–1407; 1531–1544; and 4201–4245, unless otherwise noted.

§ 17.12 [Amended]

■ 2. Amend § 17.12, in paragraph (h), by removing the entry for “*Camissonia benitensis*” under Flowering Plants from the List of Endangered and Threatened Plants.

Martha Williams,

Principal Deputy Director, Exercising the Delegated Authority of the Director, U.S. Fish and Wildlife Service.

[FR Doc. 2022–02010 Filed 2–2–22; 8:45 am]

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DEPARTMENT OF THE INTERIOR**Fish and Wildlife Service****50 CFR Part 17**

[Docket No. FWS-R8-ES-2019-0025; FF09E22000 FXES1113090FEDR 223]

RIN 1018–BD45

Endangered and Threatened Wildlife and Plants; Reclassification of Morro Shoulderband Snail From Endangered to Threatened With Section 4(d) Rule

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Final rule.

SUMMARY: We, the U.S. Fish and Wildlife Service (Service), are reclassifying the Morro shoulderband snail (*Helminthoglypta walkeriana*) from endangered to threatened under the Endangered Species Act of 1973, as amended (Act). This action is based on our evaluation of the best available scientific and commercial information, which indicates that the species' status has improved such that it is not currently in danger of extinction throughout all or a significant portion of its range, but that it is still likely to become so in the foreseeable future. We also finalize a rule issued under section 4(d) of the Act that provides for the conservation of the Morro shoulderband snail. In addition, we update the Federal List of Endangered and Threatened Wildlife to reflect the latest scientifically accepted taxonomy and nomenclature for the species as *Helminthoglypta walkeriana*, Morro shoulderband snail.

DATES: This rule is effective March 7, 2022.

ADDRESSES: This final rule is available on the internet at <https://www.regulations.gov>. Comments and materials we received, as well as supporting documentation we used in preparing this rule, are available for public inspection at <https://www.regulations.gov> under Docket No. FWS-R8-ES-2019-0025.

FOR FURTHER INFORMATION CONTACT:

Stephen P. Henry, Field Supervisor, U.S. Fish and Wildlife Service, Ventura Fish and Wildlife Office, 2493 Portola Road, Suite B, Ventura, CA 93003; telephone 805-644-1766. Persons who use a telecommunications device for the deaf (TDD) may call the Federal Relay Service at 800-877-8339.

SUPPLEMENTARY INFORMATION:

Previous Federal Actions

On December 15, 1994, we published a final rule (59 FR 64613) listing *Helminthoglypta walkeriana* (Morro shoulderband snail (=banded dune snail)) as endangered. This taxon contained two entities: *H. walkeriana* (what we now consider the Morro shoulderband snail) and *H. walkeriana morroensis* (what we now consider the Chorro shoulderband snail). At the time of listing in 1994, we thought the subspecific entity *morroensis* was extinct and that there may have been as few as several hundred individuals of *Helminthoglypta walkeriana* remaining (59 FR 64613, p. 64615, December 15, 1994); consequently, we did not consider the *morroensis* subspecies to be part of the listed entity.

In 1997, the subspecific entity *morroensis* was rediscovered at North Point Natural Area near the northern limit of Morro Bay (Roth and Tupen 2004, p. 3). In subsequent years, it was found in other areas as well. In 1998, we completed the Recovery Plan for the Morro Shoulderband Snail and Four Plants from Western San Luis Obispo County (Service 1998, entire), and in 2001, we designated critical habitat for the Morro shoulderband snail (66 FR 9233; February 7, 2001). Both the recovery plan and critical habitat addressed only *Helminthoglypta walkeriana* and not the subspecific entity *morroensis*, as explained above.

In 2004, a taxonomic analysis was completed that elevated these subspecific taxa to full species: *Helminthoglypta walkeriana* and *H.*

morroensis (Roth and Tupen 2004, entire). After 2004, *H. walkeriana* and *H. morroensis* were associated with the common names Morro shoulderband snail and Chorro shoulderband snail, respectively. Also in 2004, in an attempt to provide clarity on what was the listed entity, the Ventura Fish and Wildlife Office issued a “Dear Stakeholders and Interested Parties” letter stating we would no longer be regulating the Chorro shoulderband snail (Service 2004, entire).

However, in 2006, the Service completed a 5-year review for both the Morro and Chorro shoulderband snails and recommended downlisting Morro shoulderband snail from endangered to threatened and delisting Chorro shoulderband snail (Service 2006, entire), even though the Chorro shoulderband snail had previously not been treated as part of the listed entity.

Neither entity, *Helminthoglypta walkeriana morroensis* or the newly recognized *Helminthoglypta morroensis*, was ever formally added to the Federal List of Endangered and Threatened Wildlife. Because of its confusing history, however, we determined that it was most appropriate to now complete a listing assessment to determine whether or not the Chorro shoulderband snail meets the definition of an “endangered species” or of a “threatened species” in the Act (16 U.S.C. 1531 *et seq.*). Using the results of our evaluation in the species status assessment (SSA) report, we reaffirm our 5-year review that the information on the threats to the Chorro shoulderband snail does not support the species being listed as endangered or threatened under the Act. Since *Helminthoglypta morroensis* is not currently included on the Federal List of Endangered and Threatened Wildlife, no revision to the list is needed to implement this determination.

On July 24, 2020, we published a proposed rule (85 FR 44821) to reclassify the Morro shoulderband snail (*Helminthoglypta walkeriana*) from an endangered to a threatened species under the Act. In that proposed rule, we also announced the availability of a species assessment form constituting our full determination and threats analysis regarding the status of the Chorro shoulderband snail (Service 2020, entire), which is available on the internet at <https://www.regulations.gov>

under Docket No. FWS-R8-ES-2019-0025.

Summary of Changes From the Proposed Rule

This final rule incorporates two minor substantive changes to our July 24, 2020, proposed rule (85 FR 44821). First, we made a slight edit to the preamble text of the rule issued under section 4(d) rule of the Act (“4(d) rule”) to remove reference to a specific fire protection plan. We made this change to clarify that any fire protection plan meeting the standards set out in the 4(d) rule will be exempted from take prohibitions. Additionally, based on a public comment, we clarified the effect of conservation on the downlisting of the Morro shoulderband snail. We made no other substantive changes from the July 24, 2020, proposed rule in this final rule.

Supporting Documents

A species status assessment (SSA) team prepared an SSA report for the Morro shoulderband snail and the Chorro shoulderband snail (Service 2019). The SSA team was composed of Service biologists, in consultation with other species experts. The SSA report represents a compilation of the best scientific and commercial data available concerning the status of the species, including the impacts of past, present, and future factors (both negative and beneficial) affecting the species. In accordance with our joint policy on peer review published in the **Federal Register** on July 1, 1994 (59 FR 34270), and our August 22, 2016, memorandum updating and clarifying the role of peer review of listing actions under the Act, in 2018, we sent the SSA report to peer reviewers with expertise in snail ecology, microhabitat, and distribution, which included three experts from partner agencies: The California Department of Fish and Wildlife (CDFW), the California Department of Parks and Recreation (hereafter, State Parks), and the County of San Luis Obispo. We received six responses, including from two reviewers from partner agencies: Biologists at State Parks and the County of San Luis Obispo. We incorporated the results of those reviews, as appropriate, into the final SSA report, which is the foundation for this final rule.

I. Reclassification Determination

Background

It is our intent to discuss only those topics directly related to the reclassification of Morro shoulderband snail from an endangered species to a threatened species in this final rule. Below, we summarize the conclusions of the SSA report, including the species description, ecology, habitat, and resource needs. We also discuss recovery plan implementation. In our SSA report, we define viability as the ability of the species to sustain populations in the wild over time and provide a thorough account of the species' overall condition currently and into the future. The full SSA report is available on the internet at <https://www.regulations.gov> under Docket No. FWS-R8-ES-2019-0025.

Species Description

The Morro shoulderband snail belongs to the land snail genus, *Helminthoglypta* (Ancey 1887), which contains three subgenera comprising more than 100 species and subspecies. Morro shoulderband snail shells are umbilicate (having a depression at the center), globose (spherical), reddish brown to chestnut in color, thin, and slightly translucent (Roth 1985, p. 5). The shell has five to six whorls and a single, narrow (2 to 2.5 millimeters (mm) (0.08 to 0.1 inches (in.))), dark spiral band on the "shoulder" with thin light-yellowish margins above and below. Sculptural features of the shell include incised spiral grooves, spiral and transverse striae (grooves) that give the surface a checkerboard-like look, and papillae (small, round protrusions) at the intersections of some of the striae (Walgren 2003, p. 93). Adult shell dimensions range from 18 to 29 mm (0.7 to 1.1 in.) in diameter and from 14 to 25 mm (0.6 to 1.0 in.) in height (Roth 1985, p. 5).

Species Ecology, Habitat, and Resource Needs

In general, we know very little about the specific life history of Morro shoulderband snails. Using information compiled for other *Helminthoglypta* species (van der Laan 1975a, entire; 1975b, entire; 1980, entire), we infer information and apply it to the species, where appropriate. Like many species of *Helminthoglypta* that occur in

Mediterranean climate regions of California, the Morro shoulderband snail has adapted to changing environmental conditions by having a two-part life cycle. While feeding, reproduction, and most individual growth occur during the rainy season (Roth 1985, p. 13), individuals spend the majority of the year in aestivation (prolonged dormancy) to survive the drier seasons (Belt 2018, pers. comm.). Refugia used for the aestivation phase of the life cycle for the Morro shoulderband snail appear to be opportunistic in nature. They can include native and nonnative plant species, including dense clumps of native and nonnative grasses; young patches of ice plant (*Carpobrotus* spp.); cactus (*Opuntia* spp.); and anthropogenic features and debris (e.g., stockpiled construction materials, wood, cement, plastic) (Roth and Tupen 2004, p. 17; SWCA 2013–2017, entire; Dugan 2018, pers. comm.).

For *Helminthoglypta* species living in California, most activity occurs during the rainy season (Roth 1985, p. 13), and this is the case for Morro shoulderband snail. In coastal San Luis Obispo County, the period of greatest activity generally extends from October through April but can vary each year depending on the frequency and duration of seasonal rainfall and heavy fog/dew. During this period, individuals may be particularly active during the evening, night, and early morning hours when humidity is higher. Individuals can also be active during overcast and rainy days (van der Laan 1980, pp. 49, 52; U.S. Department of Agriculture (USDA) 1999, p. 3; Tupen 2018, pers. comm.). The Morro shoulderband snail likely emerges from aestivation during and following periods of rainfall in search of food resources and for mating and egg-laying activities.

Species of *Helminthoglypta*, like other terrestrial snails, become inactive during prolonged dry periods and enter a state of aestivation where individuals produce an epiphragm (a seal of dried mucus) across the shell aperture to greatly reduce water and weight loss (van der Laan 1975b, p. 361). They frequently aestivate attached to the lower outer branches of shrubs (van der Laan 1975b, p. 365; Roth 1985, p. 13). This attachment to a substrate may provide additional protection from desiccation by forming a more complete

seal of the aperture (van der Laan 1975b, p. 365). There is a possible decreased vulnerability to predation during dormancy when the attachment point is 20–30 centimeters (7.9–11.8 in.) above the ground surface (van der Laan 1975b, p. 365). Smaller snails tended to experience higher mortality rates during aestivation, possibly due to their thinner shells and higher surface-to-volume ratios (van der Laan 1975b, p. 364). Individuals come out of aestivation after rain events that thoroughly wet the environment and may regain as much as 50 percent of their body weight back within 24 hours (van der Laan 1975b, p. 364).

Like other terrestrial snails, we expect the Morro shoulderband snail to have a patchy distribution coincident with the presence of suitable refugia and food sources.

Species Distribution and Abundance

Initially, Hill (1974, p. 6) and others projected a very limited distribution for *Helminthoglypta walkeriana* (as the coastal form of the banded dune snail). Its range was thought to extend only a short distance inland along the southeastern shore of Morro Bay to Shark Inlet, southward to near Islay Creek, and northward on the Morro Bay sand spit at the western edge of the community of Los Osos. In the listing rule (59 FR 64613; December 15, 1994), the Service expanded the range to include the coastal dune and coastal sage scrub communities underlain by sandy soils near Morro Bay (i.e., Los Osos). Based on known species occurrences and soil associations, we used the presence of Baywood Fine Sand soils and small areas of Dune Land soils to determine distribution. We currently estimate the distribution for the Morro shoulderband snail to be approximately 2,638 hectares (ha) (6,520 acres (ac)) located in and around the community of Los Osos/Baywood Park and City of Morro Bay (see figure, below). At the time of listing, we estimated that there may have been as few as several hundred individuals of *H. walkeriana* (currently, Morro shoulderband snail) extant. Based on the most recent surveys, thousands of Morro shoulderband snails currently exist in this area (SWCA Environmental Consultants (SWCA) 2018, p. 7).

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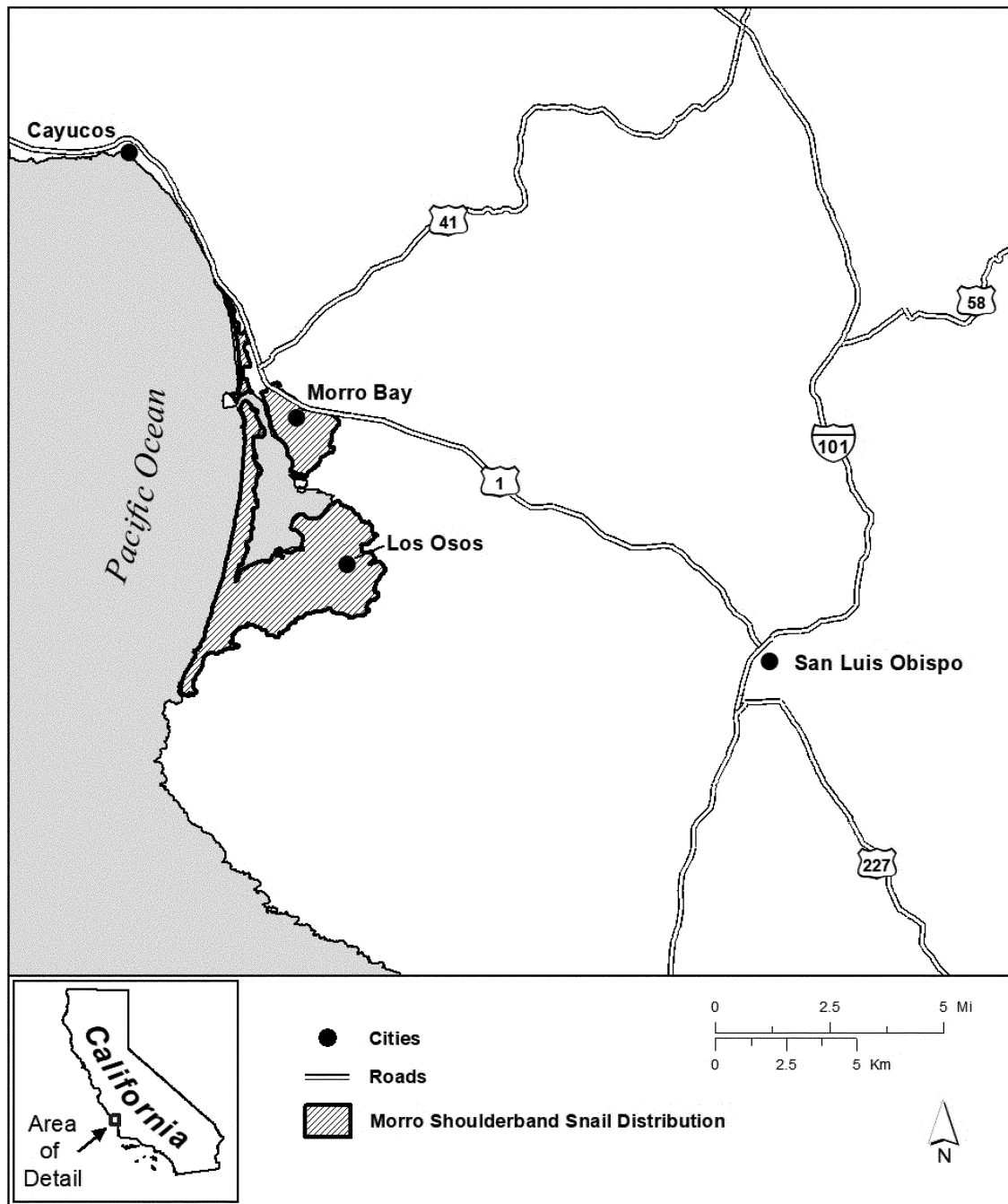


Figure: Distribution of the Morro Shoulderband Snail (*Helminthoglypta walkeriana*).

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Using known species occurrence and estimated abundance along with the presence of suitable soil types, we identified six geographic units (hereafter, “population areas”) for the purpose of discussion in our SSA report. These include North Morro Bay, Sand Spit, Morro Bay, East Los Osos, Downtown Los Osos, and South Los Osos. For a map and detailed description of these population areas, please reference the SSA report (Service 2019, pp. 24–29). The level of survey

effort throughout each of the six population areas comprising the distribution of the Morro shoulderband snail is limited and variable. For this reason, we are not able to make comparable estimates for species abundance. The Downtown and South Los Osos population areas have been subject to a greater level of survey effort associated with required monitoring for the installation of infrastructure to connect the community of Los Osos with its wastewater system. Between 2012 and 2017, more than 2,200

individuals were found in these two population areas, with over 80 percent occurring in the Downtown Los Osos area (SWCA 2018, p. 5).

Portions of the North Morro Bay, Sand Spit, Morro Bay, East Los Osos, and South Los Osos population areas are within State Parks ownership, but comprehensive surveys or monitoring have not been conducted. From discussions with State Parks biologists, we know Morro shoulderband snails are present on State Park lands in Montaña de Oro and Morro Bay State Parks and

Morro Strand State Beach, portions of which are found within several of the population areas. Data on the level of species occupation and condition of individuals is generally lacking (Walgren and Andreano 2018, pers. comm.). There have been no comprehensive surveys for the Morro shoulderband snail conducted on CDFW's Morro Dunes Ecological Reserve (MDER); however, based on species observations and presence of suitable habitat, CDFW assumes the reserve contains a robust population of the species (Stafford 2018, pers. comm.). While we know the species is present on MDER (Service files; Stafford 2018, pers. comm.), there is no evidence that the population is robust or that large numbers of individuals are present. Survey data gathered between 2012 and 2017 in contiguous habitat of similar quality and species composition indicate greater Morro shoulderband snail numbers in disturbed habitats than in native habitats (SWCA 2018, p. 5).

Recovery Criteria

Section 4(f) of the Act directs us to develop and implement recovery plans for the conservation and survival of endangered and threatened species unless we determine that such a plan will not promote the conservation of the species. Under section 4(f)(1)(B)(ii), recovery plans must, to the maximum extent practicable, include objective, measurable criteria which, when met, would result in a determination, in accordance with the provisions of section 4 of the Act, that the species be removed from the List of Endangered and Threatened Wildlife or the List of Endangered and Threatened Plants.

Recovery plans provide a roadmap for us and our partners on methods of enhancing conservation and minimizing threats to listed species, as well as measurable criteria against which to evaluate progress towards recovery and assess the species' likely future condition. However, they are not regulatory documents and do not substitute for the determinations and promulgation of regulations required under section 4(a)(1) of the Act. A decision to revise the status of a species or to delist a species is ultimately based on an analysis of the best scientific and commercial data available to determine whether a species is no longer an endangered species or a threatened species, regardless of whether that information differs from the recovery plan.

There are many paths to accomplishing recovery of a species, and recovery may be achieved without all of the criteria in a recovery plan

being fully met. For example, one or more criteria may be exceeded while other criteria may not yet be accomplished. In that instance, we may determine that the threats are minimized sufficiently and that the species is robust enough that it no longer meets the Act's definition of an endangered species or a threatened species. In other cases, we may discover new recovery opportunities after having finalized the recovery plan. Parties seeking to conserve the species may use these opportunities instead of methods identified in the recovery plan. Likewise, we may learn new information about the species after we finalize the recovery plan. The new information may change the extent to which existing criteria are appropriate for identifying recovery of the species. The recovery of a species is a dynamic process requiring adaptive management that may, or may not, follow all of the guidance provided in a recovery plan.

Below, we summarize recovery plan goals for the Morro shoulderband snail and discuss progress made toward meeting recovery plan objectives in terms of how they inform our analyses of the species' status and the stressors affecting them.

In 1998, we completed the Recovery Plan for the Morro Shoulderband Snail and Four Plants from Western San Luis Obispo County, California, which included recovery goals and objectives for Morro shoulderband snail (Recovery Plan; Service 1998, pp. 40–41). The Recovery Plan identified criteria for downlisting Morro shoulderband snail from an endangered to a threatened species and criteria for its delisting. The Recovery Plan identified four "conservation planning areas" (CPAs). These CPAs were designed to incorporate areas where distribution of the Morro shoulderband snail and three other plant species covered in the plan overlap; thus, they are more limited than the population areas for the Morro shoulderband snail defined in the SSA.

Our summary analysis of downlisting and delisting criteria follows:

The Recovery Plan stated that downlisting from endangered to threatened can be considered when sufficient populations and suitable occupied habitats from all CPAs are secured and protected (Service 1998, p. 39). These areas should be intact and relatively unfragmented by urban development. Snail populations must be large enough to minimize the short-term (next 50 years) risk of extinction on any of the four CPAs identified in the Recovery Plan, based on results of tasks 3.2.1.1, 3.2.1.2, and 3.2.1.3 (see below) and on at least preliminary results from

task 4.1. The identification and survey of potential habitat within the snail's historic range to see if undiscovered populations exist are necessary to consider downlisting.

All of CPA 1 (Morro Spit) and portions of CPAs 2, 3, and 4 (West Pecho, South Los Osos, and Northeast Los Osos) are largely secure under various ownerships and management (Service 2019, pp. 72–74). All have conservation easements or deed restrictions, or are managed by a conservation association for conservation purposes. Landowners and managers include the County, State Parks, CDFW, the Land Conservancy of San Luis Obispo County, Morro Coast Audubon Society, and the Small Wilderness Area Program (SWAP). Approximately 202 ha (500 ac) have been added to conserved lands since time of listing. This includes 56 ha (138 ac) of parcels purchased and transferred to State Parks or CDFW managed for conservation purposes and 141 ha (348 ac) with a conservation easement or deed restriction managed for conservation purposes. Overall, 85 percent (approximately 1,457 ha (3,600 ac)) of CPAs are now conserved. However, a lack of funding precludes adequate threats management on most of these lands (Service 2019, p. 53).

Recovery Task 3.2.1.1 is to determine if brown garden snail (*Cornu aspersum* (formerly *Helix aspersa*) is a competitive threat to the Morro shoulderband snail. Since the time of listing, we found that Morro shoulderband snails feed primarily on dead plant materials and the brown garden snail consumes live plant materials, so competition between these species is likely minimal (Service 2019, p. 75).

Task 3.2.1.2 involves the study of habitat use and life-history needs of the Morro shoulderband snail. Monitoring and habitat restoration activities conducted in association with the construction of a sewer system in the community of Los Osos have generated substantial new information on the diversity of habitats in which the species can occur and numbers of individuals present. We also have new information based upon anecdotal observations and surveys conducted in association with proposed development in the Los Osos area (Service 2019, pp. 28–30).

Task 3.2.1.3 is to identify Morro shoulderband snail parasites and determine if parasitism rates are threatening populations. At the time of listing, parasitism was identified as a threat to the species, based on observations of vacant sarcophagid fly

puparia within empty subadult shells (59 FR 64613, p. 64619, December 15, 1994). Since the time of listing, there has been an increase in snail observations, but not a corresponding increase in sarcophagid fly pupae infestations of snails. A few species in this fly family have been documented to eat live material (Walgren 2003, pp. 108–114; Service 2006, p. 7). While there have been no specific studies on the potential threats to the snail from these sarcophagid flies, the majority of flies in this family do not eat live organisms; thus, we conclude that the flies do not pose a threat to the species (Service 2006, p. 13). Therefore, the best available current evidence does not indicate that parasitism is a threat to the species.

Finally, Task 4.1 is to monitor populations to document population dynamics and cycles to ascertain trends. No systematic monitoring has been conducted to provide data that would allow for trend analysis. However, based on the most recent surveys, thousands of Morro shoulderband snails were detected across the species' range, as compared to hundreds known at the time of listing (Service 2019, pp. 28–30; SWCA 2018, p. 5; Walgren and Andreano 2018, pers. comm.). Therefore, although we do not have specific trend data, we conclude that we have still met the intent of this criterion.

Delisting can be considered when habitats from all CPAs (and any newly located populations) are successfully managed to maintain the desired community structure and are secured from threats of development, invasion of nonnative plants, structural changes due to senescence of dune vegetation, recreational use, pesticides (including slug and snail baits), parasites, and competition or predation from nonnative snail species. The outcomes of recovery tasks must result in a low medium-to-long-term risk of extinction from any of the four CPAs (Service 1998, p. 40).

Our analyses in the SSA report indicate that the current viability of Morro shoulderband snail has improved to some degree since the time of listing due to information indicating there are substantially more individuals than previously thought, as well as beneficial effects of certain conservation efforts, predominantly in the form of land acquisition. Based on our future scenario analyses, the species is still at risk in the future due to the potential for development and because the level of continued conservation efforts and habitat management is uncertain. Currently and into the future, habitat loss due to development and habitat

degradation, predominantly from invasive plant species, remain threats to the Morro shoulderband snail.

To improve habitat for the species, the Morro Coast Audubon Society has a dedicated volunteer work force to remove the invasive, nonnative plant species *Ehrharta calycina* (perennial veldt grass) and *Eucalyptus globulus* (blue gum) seedlings at their Sweet Springs Preserve (outside of any CPA) under the direction of a recovery action plan. The Los Osos/Morro Bay Chapter of SWAP does the same for the Elfin Forest Reserve in CPA 4. State Parks staff annually prioritize areas for invasive species treatment on a case-by-case basis. When funding is available, they implement actions to control invasive species in Montaña de Oro State Park, Morro Strand State Beach, Morro Bay State Park, and Los Osos Oaks Preserve (CPAs 1 and 2, portions of 3 and 4, and Area A). Identified invasive species prioritized for removal include *E. calycina*, *Conicosia pugioniformis* (narrowleaf iceplant), *Emex spinosa* (devil's thorn), *Cortaderia* species, and *Eucalyptus* species because they are the most invasive and conspicuous in the landscape.

Lack of funding precludes most State of California resource agencies (e.g., State Parks and CDFW) from implementing invasive species control programs on lands where these species are present. State Parks staff have conducted limited prescribed burns and proposed additional prescribed burns to improve the quality of coastal dune scrub and central maritime chaparral and their constituent species within their park units. Fires typically kill snails, but if properly applied in small areas to create a mosaic of varying stand ages for coastal dune scrub and central maritime chaparral, such burns could improve the quality of these habitats for the Morro shoulderband snail in the long term. Previous threats to habitat resulting from illegal off-road vehicle activities are largely controlled; however, illegal trail development and use by hikers, mountain bikers, and equestrians negatively affects habitat for Morro shoulderband snails by increasing erosion, reducing native plant cover, and facilitating further invasion by nonnative plant species (Service 2019, pp. 75–76).

Based on the Recovery Plan and our SSA report, we conclude that the status of the Morro shoulderband snail has improved throughout its range due to information demonstrating that there are substantially more individuals than previously thought, and due to conservation efforts predominantly in the form of land acquisition. The SSA

report contains an accounting of known conservation and management efforts (Service 2019, pp. 23–24). Overall, our analysis indicates that the intent of the downlisting criteria for the Morro shoulderband snail has been met; however, delisting criteria have not yet been achieved.

Regulatory and Analytical Framework

Regulatory Framework

Section 4 of the Act (16 U.S.C. 1533) and its implementing regulations (50 CFR part 424) set forth the procedures for determining whether a species is an endangered species or a threatened species. The Act defines an “endangered species” as a species that is in danger of extinction throughout all or a significant portion of its range, and a “threatened species” as a species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range. The Act requires that we determine whether any species is an “endangered species” or a “threatened species” because of any of the following factors:

- (A) The present or threatened destruction, modification, or curtailment of its habitat or range;
- (B) Overutilization for commercial, recreational, scientific, or educational purposes;
- (C) Disease or predation;
- (D) The inadequacy of existing regulatory mechanisms; or
- (E) Other natural or manmade factors affecting its continued existence.

These factors represent broad categories of natural or human-caused actions or conditions that could have an effect on a species' continued existence. In evaluating these actions and conditions, we look for those that may have a negative effect on individuals of the species, as well as other actions or conditions that may ameliorate any negative effects or may have positive effects. We consider these same five factors in downlisting a species from endangered to threatened (see 50 CFR 424.11(c), (d), and (e)).

We use the term “threat” to refer in general to actions or conditions that are known to or are reasonably likely to negatively affect individuals of a species. The term “threat” includes actions or conditions that have a direct impact on individuals (direct impacts), as well as those that affect individuals through alteration of their habitat or required resources (stressors). The term “threat” may encompass—either together or separately—the source of the action or condition or the action or condition itself.

However, the mere identification of any threat(s) does not necessarily mean that the species meets the statutory definition of an “endangered species” or a “threatened species.” In determining whether a species meets either definition, we must evaluate all identified threats by considering the species’ expected response and the effects of the threats—in light of those actions and conditions that will ameliorate the threats—on an individual, population, and species level. We evaluate each threat and its expected effects on the species, then analyze the cumulative effect of all of the threats on the species as a whole. We also consider the cumulative effect of the threats in light of those actions and conditions that will have positive effects on the species—such as any existing regulatory mechanisms or conservation efforts. The Secretary determines whether the species meets the definition of an “endangered species” or a “threatened species” only after conducting this cumulative analysis and describing the expected effect on the species now and in the foreseeable future.

The Act does not define the term “foreseeable future,” which appears in the statutory definition of “threatened species.” Our implementing regulations at 50 CFR 424.11(d) set forth a framework for evaluating the foreseeable future on a case-by-case basis. The term foreseeable future extends only so far into the future as we can reasonably determine that both the future threats and the species’ responses to those threats are likely. In other words, the foreseeable future is the period of time in which we can make reliable predictions. “Reliable” does not mean “certain”; it means sufficient to provide a reasonable degree of confidence in the prediction. Thus, a prediction is reliable if it is reasonable to depend on it when making decisions.

It is not always possible or necessary to define foreseeable future as a particular number of years. Analysis of the foreseeable future uses the best scientific and commercial data available and should consider the timeframes applicable to the relevant threats and to the species’ likely responses to those threats in view of its life-history characteristics. Data that are typically relevant to assessing the species’ biological response include species-specific factors such as lifespan, reproductive rates or productivity, certain behaviors, and other demographic factors.

Analytical Framework

The SSA report documents the results of our comprehensive biological review of the best scientific and commercial data regarding the status of the species, including an assessment of the potential threats to the species. The SSA report does not represent our decision on whether the species should be reclassified as a threatened species under the Act. It does, however, provide the scientific basis that informs our regulatory decisions, which involve the further application of standards within the Act and its implementing regulations and policies. The following is a summary of the key results and conclusions from the SSA report; the full SSA report can be found on the internet at <https://www.regulations.gov> under Docket No. FWS-R8-ES-2019-0025.

To assess Morro shoulderband snail viability, we used the three conservation biology principles of resiliency, redundancy, and representation (Shaffer and Stein 2000, pp. 306–310). Briefly, resiliency supports the ability of the species to withstand environmental and demographic stochasticity (for example, wet or dry, warm or cold years), redundancy supports the ability of the species to withstand catastrophic events (for example, droughts, large pollution events), and representation supports the ability of the species to adapt over time to long-term changes in the environment (for example, climate changes). In general, the more resilient and redundant a species is and the more representation it has, the more likely it is to sustain populations over time, even under changing environmental conditions. Using these principles, we identified the species’ ecological requirements for survival and reproduction at the individual, population, and species levels, and described the beneficial and risk factors influencing the species’ viability.

The SSA process can be categorized into three sequential stages. During the first stage, we evaluated individual species’ life-history needs. The next stage involved an assessment of the historical and current condition of the species’ demographics and habitat characteristics, including an explanation of how the species arrived at its current condition. The final stage of the SSA involved making predictions about the species’ responses to positive and negative environmental and anthropogenic influences. Throughout all of these stages, we used the best available information to characterize viability as the ability of a species to sustain populations in the wild over

time. We use this information to inform our regulatory decision.

Summary of Biological Status and Threats

Below, we review the biological condition of the species and its resources, and the threats that influence the species’ current and future condition, in order to assess the species’ overall viability and the risks to that viability.

We note that, by using the SSA framework to guide our analysis of the scientific information documented in the SSA report, we have not only analyzed individual effects on the species, but we have also analyzed their potential cumulative effects. We incorporate the cumulative effects into our SSA analysis when we characterize the current and future condition of the species. To assess the current and future condition of the species, we undertake an iterative analysis that encompasses and incorporates the threats individually and then accumulates and evaluates the effects of all the factors that may be influencing the species, including threats and conservation efforts. Because the SSA framework considers not just the presence of the factors, but to what degree they collectively influence risk to the entire species, our assessment integrates the cumulative effects of the factors and replaces a standalone cumulative effects analysis.

We reviewed the potential threats that could be affecting Morro shoulderband snails now and in the future. In this final rule, we discuss in detail only those factors that could meaningfully affect the status of the species. At the time of listing, we identified urban development and other anthropogenic activities such as recreation, grazing, and utility construction as threats to the Morro shoulderband snail (59 FR 64613; December 15, 1994). In the SSA report (Service 2019, pp. 21–64), we reviewed four potential threats that could be affecting the current condition of the Morro shoulderband snail (development, agriculture, vegetation management, and predation), and those threats and two others (wildfire, invasive species) that could affect the future condition of the species. For the Morro shoulderband snail, we consider the foreseeable future to be 30 years. This timeframe takes into account threats associated with fire, habitat degradation, and climate change, and also the implementation of the Los Osos Habitat Conservation Plan (LOHCP).

The primary risk factors affecting the Morro shoulderband snail are the present and threatened modification or

destruction of its habitat from development, wildfire, and invasive plant species (Factor A), as well as effects to its life cycle from changing climate conditions (Factor E). We also considered the effect of existing regulatory mechanisms (Factor D) on the magnitude of threats. Additional threats affecting the species' habitat include agriculture (Factor A) and vegetation management (Factor A), and threats affecting the species include predation (Factor C); however, we have determined that these threats have little to no impact on the species' viability. We also analyzed the threat of collection (Factor B). At the time of listing, we stated that the taxonomic distinctiveness of the Morro shoulderband snail made it vulnerable to recreational or scientific collectors. Since the time of listing, however, we are not aware of specific collection activities for recreational or scientific purposes. Therefore, we conclude that overcollection (Factor B) is not a threat to the species.

Development

At the time of listing, development was identified as one of the main threats impacting the Morro shoulderband snail. Human development consists of converting the landscape into residential, commercial, industrial, and recreational features, with associated infrastructure such as roads. Converting the landscape into development not only removes individual Morro shoulderband snails but also removes their habitat, thereby reducing the space available for the species to inhabit and functionally lowering carrying capacity. In addition, development results in indirect effects by fragmenting the habitat and creating edge effects, such as increased vulnerability to desiccation, fire, and predation. The effects of development on the Morro shoulderband snail are predicated upon several factors (e.g., how the City and County of San Luis Obispo revise and implement their respective general plans, the economy, water availability).

However, as detailed in the SSA report, conservation actions have been undertaken since the time of listing to reduce the threat of development (Service 2019, pp. 24–25). Approximately 202 ha (500 ac) of Morro shoulderband snail habitat have been conserved since the time of listing. This includes 56 ha (138 ac) of parcels purchased and transferred to the California Department of Parks and Recreation (CDPR) or CDFW and 141 ha (348 ac) with conservation easement or deed restriction; all of these areas are managed for conservation purposes.

Overall, 85 percent (approximately 1,457 ha (3,600 ac)) of CPAs are now protected from development. Although most lands within the species' distribution outside of CPAs are not under formal or legal protection as open space or conservation easements, many are protected as part of a State Park, State of California ecological reserve, or parcels set aside specifically to conserve and enhance natural resource values. For example, the County of San Luis Obispo's Broderson and Midtown parcels are both protected through deed restrictions that preclude development other than that which would enhance habitat that supports Morro shoulderband snails. With increased conserved lands, the threat of development has been reduced since the time of listing, but some potential impacts remain that could result in the loss of populations and thus the loss of representation and redundancy across the species' range. For example, large portions of the East Los Osos and Downtown Los Osos population areas consist predominantly of public and private land parcels zoned for development. Apart from the protections afforded by the Act, the existing regulatory mechanisms do not address the impacts of development on the Morro shoulderband snail.

Invasive Species

Invasion of native habitat by nonnative plant species can reduce suitability for native constituent species that evolved in these habitats. Areas dominated by a single invasive plant species tend to support lower levels of animal diversity due to a reduction in heterogeneity as compared to the original native plant community (Steidl and Litt 2009, p. 57). The presence of nonnative plant species can also alter the abundance of native plants that serve as an important food source for herbivores, such as snails. Invasive plant species can increase vegetative cover and reduce space between native plant species in native communities. Invasive plant species can change fuel properties in native habitats, which can then affect fire behavior and alter fire regime characteristics such as frequency, severity, extent, type, and seasonality (Brooks et al. 2004, entire). In coastal dune scrub and maritime chaparral, native communities that typically support a sparse understory, invasive grasses, such as perennial veldt grass, can serve as ladder fuel to carry fire into these communities. Fires can also create an opportunity for invasive plant species to expand their local distributions and dominance (Brooks and Lusk 2008, p. 9).

While once thought to be largely restricted to native coastal scrub communities underlain by sandy soils, Morro shoulderband snails are known to occur, at least in the short term, in disturbed areas and those dominated by nonnative species (e.g., perennial veldt grass, ice plant) (SWCA 2018, p. 5). Biologists and land planners typically classify these areas as ruderal or "disturbed" and, as such, discount them in terms of their conservation value. Ruderal, disturbed, and nonnative grassland habitats are, therefore, subject to mowing, herbicide use, development, and other uses that put individual Morro shoulderband snails in these areas at a greater risk of injury or mortality than those found in native habitat.

Currently, three of the six population areas that support the Morro shoulderband snail are in moderate- or low-quality habitat, with impacts from nonnative species (Service 2019, pp. 37–38). Habitat in these areas is either somewhat degraded (one population area) (9.5 percent of species distribution) or highly degraded and fragmented (two population areas) (38.3 percent of species distribution).

Both the Morro Coast Audubon Society and SWAP conduct activities to improve habitat quality for the Morro shoulderband snail and other coastal dune scrub species on lands conserved and protected under their ownership and/or management (Sweet Springs Nature Preserve and Elfin Forest, respectively). These actions focus primarily on the removal of exotic plant species (perennial veldt grass, iceplant), restoration of coastal dune scrub, and erosion control. The CDPR also conducts similar activities on its lands (i.e., Montaña de Oro and Morro Bay State Parks and Morro Strand State Beach). The County of San Luis Obispo owns two large parcels in Los Osos, Broderson and Mid-Town, that support coastal dune scrub and, to a lesser extent, central maritime chaparral. Management actions on both parcels focus on the restoration and enhancement of habitat for the Morro shoulderband snail (Kevin Merk Associates, LLC (KMA) 2017, entire; County of San Luis Obispo 2017, entire). The Land Conservancy of San Luis Obispo County recently purchased approximately 5.7 ha (14 ac) adjacent to the Morro Coast Audubon Society's Sweet Springs Preserve. They plan to enhance habitat quality for coastal dune scrub species, including Morro shoulderband snail, before transferring these lands to Morro Coast Audubon Society ownership and management (Theobald 2017, pers. comm.). Overall,

while these conservation measures have decreased the overall impact of invasive plant species, degradation of native habitats from those species is ongoing, and the existing regulatory mechanisms do not address the impact of invasive species.

Wildfire

Morro shoulderband snails evolved in a fire-adapted landscape dominated by coastal dune scrub and maritime chaparral. Exposure to fire can result in individual mortality; however, an evolutionary strategy has enabled the species to persist in these habitats. Theories related to the nature of fire history in California shrublands are complicated and varied (Goforth and Minnich 2007, p. 779). In the range of the Morro shoulderband snail, the “natural” condition was one of frequent, small fires that fragmented the landscape into a fine-grained mosaic of age classes that precluded large, catastrophic fires (Minnich and Chou 1997, p. 244). In this type of situation, areas of unburned coastal dune scrub and central maritime chaparral would serve as refugia for individual snails that could then recolonize areas as the fire-adapted plant communities reestablished.

We consider an increase in wildfire frequency and/or intensity associated with continued climate change to be plausible in the future within the range of the Morro shoulderband snail (Service 2019, entire). A landscape-level or more severe fire event would constitute a threat to the species due to its very limited distribution. This type of fire could leave little in the way of habitat to serve as native refugia and result in a substantial amount of individual mortality, increasing the likelihood of local population extirpation. Absent individuals in nearby habitat to recolonize burned areas as habitat reestablishes, large-scale fire could result in a reduction in the overall distribution of the species, and thus loss of redundancy and representation. The existing regulatory mechanisms do not address the impact of wildfire on the Morro shoulderband snail or its habitat.

Climate Change

Climate change is likely to affect many terrestrial gastropod populations in California, including the Morro shoulderband snail. Species with small geographic ranges are particularly vulnerable to extinction due to the effects of climate change (Allan et al. 2005, p. 284). In the range of the Morro shoulderband snail, climate change may result in both droughts and localized

flood events from heavy rainfall. In the future, extreme storm events may increase in severity beyond historic levels of intensity with potential to increase flood risks in California (Dettinger 2011, pp. 521–522). Future estimates of changes in temperature and precipitation patterns in California by the 2060s based on downscaled climate models show that the historically maximum July temperatures are likely to increase and heat waves may span longer durations (Pierce et al. 2013, entire).

The increased frequency of protracted drought events predicted in California is likely to result in higher mortality during prolonged periods of seasonal aestivation, particularly among smaller individuals in the population (van der Laan 1975b, p. 364). Higher levels of egg mortality from desiccation are expected. Warmer temperatures and greatly reduced wet season precipitation during prolonged multiyear drought events also increase stress on vegetation (Coates et al. 2015, p. 14277) and may limit time for feeding and breeding in the Morro shoulderband snail. Coastal sage scrub communities had the highest seasonal variability in terms of the relative amount of ground covered by green vegetation during the drought years of 2013–2014 (Coates et al. 2015, p. 14283). Coastal sage scrub plant species also had the highest land surface temperature values of the communities analyzed, likely resulting from lower vegetation cover, lower evapotranspiration, and south-facing slopes typical of coastal sage scrub communities (Coates et al. 2015, p. 14284). These effects of prolonged drought reduce the value and quality of sheltering habitat as well as food availability within the primary plant community associated with the Morro shoulderband snail. Combined with impacts from wildfire, invasive species, and development, the negative effects of climate change on growth and reproduction are likely to result in decreased population abundance and increased vulnerability to local extirpation into the future.

Summary of Threats

We examined the effects of threats affecting the Morro shoulderband snail and its habitat; we now summarize these threats and their cumulative effects on the species. Currently, the species and its habitat are being impacted by development, invasive nonnative plants, wildfire, and effects associated with climate change. Along with a decrease in habitat quality due to increased temperatures and increased frequency of droughts, the effects of

climate change may also exacerbate low population size and fragmented habitats, resulting in increased risk of extirpation. The effects of climate change will also combine with the effects of development, wildfire, and invasive species to exacerbate habitat loss and mortality of individuals. However, the magnitude of threats has decreased since the time of listing, and conservation actions have addressed some of the impacts from development and nonnative plants. Still, the species’ low abundance and fragmented habitat mean it is vulnerable to threats into the future, including potential extirpation of population areas by wildfire.

Current and Potential Future Condition

We assessed the viability of the Morro shoulderband snail by evaluating its ability to maintain a sufficient number and distribution of healthy populations in order to maintain resiliency, redundancy, and representation. We analyzed threats to the species and ongoing conservation actions by incorporating the effects of development, invasive species, wildfire, and changing climate conditions into our analyses of resiliency, representation, and redundancy.

For the Morro shoulderband snail to maintain viability, its populations, or some portion thereof, need to be resilient to stochastic events. Resiliency is measured by the size and growth rate of each population, which influence the likelihood that the populations comprising a species are able to withstand or bounce back from environmental or demographic stochastic events. We evaluated variables influencing the ability of the Morro shoulderband snail to withstand stochastic events by population area, including abundance (as available), distribution of individuals, habitat quality and configuration, and the likelihood that suitable habitat would persist into the future. To determine habitat quality and configuration in each population area, we evaluated its context in the overall landscape relative to fragmentation and whether one or more of those primary constituent elements identified for critical habitat designated in 2001 (66 FR 9233; February 7, 2001) are present. Primary constituent elements for this species include the following physical or biological features: Sand or sandy soil needed for reproduction; a slope not greater than 10 percent to facilitate movement of individuals; and native coastal dune scrub vegetation. To determine the likelihood that suitable habitat will persist into the future, we evaluated the proportion of protected

habitat in each population area. We then created an overall current condition for each population area based on these three variables.

Based on overall current condition, we then forecasted the condition of these variables into the future for 30 years under three different scenarios. The three future scenarios attempt to encompass the range of plausible possibilities for each population area over the next 30 years. To forecast climate change impacts, we relied on scientific papers (Dettinger 2011, entire; Pierce et al. 2013, entire) that incorporated multi-model ensembles and downscaled regional climate projections that examine key characteristics relating to the Morro

shoulderband snail, such as summer temperatures and seasonal changes in precipitation.

First, we forecasted the condition of each population area under the status quo, with continued climate change effects, all existing threats continuing at their current level, and no additional conservation efforts for the species (“Status Quo” scenario). Second, we forecasted the condition of each population area under implementation of the LOHCP, a draft regional habitat conservation plan that proposes the Morro shoulderband snail as a covered species, against a backdrop of continued climate change effects (“Limited Conservation” scenario). In the “Limited Conservation” scenario, the

LOHCP consolidates the threat of development to one population area, while other existing threats continue at their current level. Finally, we forecasted implementation of the LOHCP, active management for the Morro shoulderband snail within existing protected but generally unmanaged lands, and additional habitat protection through acquisition and subsequent management (“Major Conservation” scenario), again against a backdrop of continued climate change. The “Major Conservation” scenario includes decreased threats due to development and invasive plant species, as well as conservation benefits from habitat restoration.

TABLE—SUMMARY OF MORRO SHOULDERBAND SNAIL RESILIENCY: CURRENT AND FUTURE CONDITIONS BY POPULATION AREA

Population area	Current condition	Future scenario: Status quo	Future scenario: Limited Conservation	Future scenario: Major Conservation
North Morro Bay	Moderate	Moderate	Moderate	High.
Sand Spit	High	Moderate	Moderate	High.
Morro Bay	Low	Low	Low	Low.
East Los Osos	Moderate	Low	Low	Moderate.
Downtown Los Osos	Moderate	Low	Low	Low.
South Los Osos	High	Moderate	High	High.

Maintaining representation of healthy populations across the diversity of habitat types or ecological gradients within the distribution of Morro shoulderband snail will likely conserve the relevant genetic diversity and adaptive capacity associated with individual persistence across these habitat types. Currently, the species is represented in all of six population areas; however, changes under future scenarios could put individuals in some population areas at greater risk of extirpation, resulting in a potential loss of representation and leaving the species extant only in the periphery of its range.

The Morro shoulderband snail needs multiple resilient population areas distributed throughout its extremely limited distribution to provide for redundancy. Historically, based on the mapping of Baywood Fine Sand soils, it is likely that habitat was once well-distributed throughout the species’ range. Development now primarily separates these population areas. Low resiliency and disconnected population areas, currently and in the future, suggest that stochastic events could increase species vulnerability to loss of redundancy and could increase the risk of loss of population areas, which would then diminish species redundancy. An overall decrease in the

condition of population areas in two of the three future scenarios suggests a potential compromised redundancy and, therefore, risk of extirpation from catastrophic events in the future, unless major conservation actions are undertaken. Prolonged and/or more intensive drought, increased wildfire frequency and/or intensity, and localized flooding are those events that could affect the Morro shoulderband snail at the catastrophic scale.

The resiliency of Morro shoulderband snail population areas within the species’ distribution has changed over time due to loss, degradation, and/or fragmentation of native habitat. Currently, we consider two population areas (Sand Spit and South Los Osos) to have a high level of resiliency, three population areas (North Morro Bay, East Los Osos, Downtown Los Osos) to have moderate resiliency, and one population area (Morro Bay) to have a low resiliency. It is not likely that loss of the Morro Bay population area would affect species representation across the remaining portion of the range, as current numbers of individuals in this population area are very low, and it is generally isolated from the other five population areas. Regarding population redundancy, we consider those population areas with low or moderate resiliencies to be at a greater risk of local

extirpation, which has the potential to decrease overall species redundancy.

Our analyses indicate that the current viability of the Morro shoulderband snail has likely improved to some degree since the time of listing because there are substantially more individuals than thought at the time of listing and certain conservation efforts (predominantly protection of habitat through conservation easement, deed restriction, or management for conservation purposes) have been implemented.

Overall, we anticipate that the viability of the species will decline in the future under two of the three scenarios: “Status Quo” and “Limited Conservation.” Under the “Status Quo” scenario, resiliency of the North Morro Bay and Morro Bay population areas would remain moderate and low, respectively, while all other population areas would be expected to experience decreased resiliency. Under the “Status Quo” scenario, half of the population areas are projected to be in the low resiliency category. Under the “Limited Conservation” scenario, resilience of the North Morro Bay, Morro Bay, and South Los Osos population areas would remain unchanged. The South Los Osos population area is where the majority of the conservation strategy for the LOHCP would occur. Only in the “Major

Conservation” scenario does resiliency remain the same or improve, with the exception of Downtown Los Osos, where we anticipate the majority of development would occur as part of LOHCP implementation. For redundancy, an overall decrease in the condition of population areas in two of the three future scenarios suggests those low-condition populations are at risk of being lost and, therefore, that there could be decreased species redundancy. Against a backdrop of increased climate change effects expected to result in prolonged and/or more intensive droughts, increased wildfire frequency and/or intensity, and localized flooding events, risk of extirpation could increase with decreased species redundancy.

Summary of Comments and Recommendations

In the proposed rule published on July 24, 2020 (85 FR 44821), we requested that all interested parties submit written comments on the proposed reclassification of the Morro shoulderband snail from endangered to threatened and the associated proposed 4(d) rule by September 22, 2020. We also contacted appropriate Federal and State agencies, scientific experts and organizations, and other interested parties and invited them to comment on the proposal. Newspaper notices inviting general public comment were published in the San Luis Obispo Tribune. We did not receive any requests for a public hearing. We received seven public comments. Six expressed only opinions in support or in opposition to the proposed downlisting without supporting information.

Peer Reviewer Comments

As discussed in Supporting Documents above, we received comments from six peer reviewers during the 2018 peer review of the SSA. We reviewed all comments we received from the peer reviewers for substantive issues and new information regarding the information contained in the SSA report. The peer reviewers generally concurred with our methods and conclusions, and provided additional information, clarifications, and suggestions to improve the final SSA report, including on snail morphology, habitat preferences, and behavior. Peer reviewer comments were incorporated into the final SSA report (Service 2019, entire).

Comments From Federal Agencies, States, and Tribes

We did not receive any comments from Federal agencies, States or State

agencies, or Tribes during the public comment period.

Public Comments

(4) *Comment:* One commenter thought that the proposed rule inferred that the Service did not intend to include the Chorro shoulderband snail in the original 1994 listing. The commenter notes that, in fact, information in the Service’s Ventura Fish and Wildlife Office’s files indicates that the inclusion of the Chorro shoulderband snail in the 1994 listing rule was intentional. The commenter stated that the proposed rule states that it was appropriate to complete a listing assessment for the Chorro shoulderband snail.

Our response: We acknowledge that the Chorro shoulderband snail was part of the taxonomic entity that was included in the original listing rule in 1994 (59 FR 64613; December 15, 1994). We further acknowledge the confusing history of the two taxa, and that we referred to them in different ways in the original listing rule (59 FR 64613; December 15, 1994), the designated critical habitat (66 FR 9233; February 7, 2001), and our 2004 letter to partners. We address the inconsistency under Summary of Previous Federal Actions, above. Additionally, in the July 24, 2020, proposed rule (85 FR 44821), we announced the availability of a Species Assessment form constituting our full determination and threats analysis regarding the status of the Chorro shoulderband snail (Service 2020, entire). In that assessment, we determined that, based on the best available science, the Chorro shoulderband snail does not meet the Act’s definition of an “endangered species” or a “threatened species.” Although information on the Chorro shoulderband snail is limited, under section 4(b)(1)(A) of the Act, we are required to make our determinations based solely on the best scientific and commercial data available at the time of our rulemaking.

(5) *Comment:* One commenter noted the line in the proposed rule that states, “the current viability of Morro shoulderband snail has improved to some degree since the time of listing due to concerted conservation efforts” and thought that this means the proposed rule infers that conservation measures are the reason for the substantial increase in numbers. The commenter notes the reason for increase in knowledge of number of snails is based on surveys from ruderal/disturbed habitat, not from the acreage that has been conserved. Commenter notes most of the land that has been conserved is not managed for the Morro

shoulderband snail. Currently, the Morro shoulderband snail is not restricted to native habitat and is able to persist in highly disturbed areas and those dominated by nonnative plant species.

Our response: We have revised the rule to clarify that we are reclassifying the Morro shoulderband snail from endangered to threatened (*i.e.*, “downlisting” the species) because there are substantially more individuals than previously thought, as well as beneficial effects of certain conservation efforts, predominantly in the form of land acquisition, since the time the species was listed. We acknowledge that those lands are not managed for the Morro shoulderband snail; however, they still provide protection from development, which was one of the greatest threats identified at the time of listing.

Determination of Morro Shoulderband Snail’s Status

Section 4 of the Act (16 U.S.C. 1533) and its implementing regulations (50 CFR part 424) set forth the procedures for determining whether a species meets the definition of an “endangered species” or a “threatened species.” The Act defines an “endangered species” as a species that is in danger of extinction throughout all or a significant portion of its range, and a “threatened species” as a species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range. For a more detailed discussion on the factors considered when determining whether a species meets the definition of an “endangered species” or a “threatened species” and our analysis on how we determine the foreseeable future in making these decisions, please see Regulatory and Analytical Framework, above.

Status Throughout All of Its Range

We evaluated threats to the species and assessed the cumulative effect of the threats under the Act’s section 4(a)(1) factors. This included an examination of the best scientific and commercial information available regarding the past, present, and future threats faced by the species, as well as information presented in the 2006 5-year review (Service 2006, entire), additional information available since the 5-year review was completed, and other available published and unpublished information. We also consulted with species experts and land management staff who are actively managing habitat for the conservation of the Morro shoulderband snail.

The primary risk factors affecting Morro shoulderband snails are the present and threatened modification or destruction of its habitat from development (Factor A), wildfire (Factor A), and invasive species (Factor A), as well as effects to its life cycle from changing climate conditions (Factor E). We also considered the threat of collection (Factor B), agriculture and vegetation management (Factor A) and predation (Factor C) (Service 2019, pp. 21–45). Finally, we examined the adequacy of existing regulatory mechanisms in addressing these threats (Factor D).

Threats influencing the viability of Morro shoulderband snail populations at the time of listing were urban development, off-road vehicle activity, nonnative vegetation (referred to as invasive species in this final rule), parasitoids (an insect whose larvae live as parasites that eventually kill their hosts), and competition from brown garden snails, all of which were exacerbated by effects associated with small population size and drought conditions (59 FR 64613; December 15, 1994). Since the time of listing, we have determined that some of these threats are no longer affecting the species, particularly off-road vehicle activity, brown garden snails, parasitoids, and controlled burns (Service 2006, pp. 11–15). Our current analysis indicates that the remaining threats identified at the time of listing have been reduced in magnitude, and that overall the level of impacts to Morro shoulderband snail and its habitat that placed the species in danger of extinction in 1994 have been substantially reduced. These reductions have occurred predominantly because of significant protection of lands at risk of development and surveys indicating that population numbers now occur in the thousands rather than the hundreds. However, threats are still impacting the species and its habitat, and new threats have been identified since the time of listing.

Of the factors identified above, habitat loss and degradation from fragmentation associated with development and invasive plant species (Factor A), wildfire (Factor A), and effects to the Morro shoulderband snail's life cycle from changing climate conditions (Factor E) are the most significant threats to the species currently and into the foreseeable future. Conservation actions have somewhat decreased the magnitude of impacts from nonnative, invasive plant species; however, degradation of native habitats by these species is ongoing. Apart from the protections afforded by the Act, no regulatory mechanisms are addressing

the threats impacting the species and its habitat.

We considered plausible future conditions for the Morro shoulderband snail to evaluate the status of the species into the future. Under the “Status Quo” scenario, the species would lose resiliency due to continued threats of habitat loss, decreasing habitat quality due to invasive species and drought, and increased wildfire frequency and intensity. These effects will increase into the future, putting some population areas at risk of extirpation. Major conservation efforts, including implementation of the LOHCP conservation program, active management within currently protected but generally unmanaged lands throughout the distribution of the species, and additional habitat protection through acquisition and subsequent management, could help ameliorate some of these threats in the future; however, this level of conservation is not sufficiently certain to be implemented.

After our review and analysis of threats as they relate to the five statutory factors, we find that this information does not indicate that these threats are affecting individual populations of Morro shoulderband snail or the species as a whole across its range to the extent that the threats currently are of sufficient imminence, scope, or magnitude to rise to the level that the species is presently in danger of extinction throughout all of its range. However, while numbers of individuals across the majority of the species' range are greater now than at the time of listing and some habitat for the species is protected from development, the species remains negatively affected by continued and future threats and inadequate resource needs across much of its range.

The best available information indicates there are continued population- and rangewide-level impacts to Morro shoulderband snails despite beneficial conservation efforts in several of the population areas that have reduced the magnitude of development. Specifically, Morro shoulderband snail populations across the range continue to be negatively affected by effects of development and invasive, nonnative plant species, although at a lower level than at the time of listing. However, in the foreseeable future, available information also indicates increasing temperatures and reductions in the amount of annual rainfall associated with climate change will likely result in prolonged drought conditions that negatively influence Morro shoulderband snail abundance in the

future, along with increasing frequency and intensity of wildfires. These effects will combine with the ongoing low-grade impacts of development and invasive plants such that the species is likely to become endangered in the foreseeable future.

After evaluating threats to the species and assessing the cumulative effect of the threats under the Act's section 4(a)(1) factors, based on the best available information, we determine that the Morro shoulderband snail is not currently in danger of extinction, but is likely to become in danger of extinction within the foreseeable future, throughout all of its range.

Status Throughout a Significant Portion of Its Range

Under the Act and our implementing regulations, a species may warrant listing if it is in danger of extinction or likely to become so in the foreseeable future throughout all or a significant portion of its range. The court in *Center for Biological Diversity v. Everson*, 2020 WL 437289 (D.D.C. Jan. 28, 2020) (*Center for Biological Diversity*), vacated the aspect of the Final Policy on Interpretation of the Phrase “Significant Portion of Its Range” in the Endangered Species Act's Definitions of “Endangered Species” and “Threatened Species” (79 FR 37578; July 1, 2014) that provided that the Service does not undertake an analysis of significant portions of a species' range if the species warrants listing as threatened throughout all of its range. Therefore, we proceed to evaluating whether the species is endangered in a significant portion of its range—that is, whether there is any portion of the species' range for which both (1) the portion is significant; and (2) the species is in danger of extinction in that portion. Depending on the case, it might be more efficient for us to address the “significance” question or the “status” question first. We can choose to address either question first. Regardless of which question we address first, if we reach a negative answer with respect to the first question that we address, we do not need to evaluate the other question for that portion of the species' range.

Following the court's holding in *Center for Biological Diversity*, we now consider whether there are any significant portions of the species' range where the species is in danger of extinction now (*i.e.*, endangered). In undertaking this analysis for the Morro shoulderband snail, we choose to address the status question first—we consider information pertaining to the geographic distribution of both the species and the threats that the species

faces to identify any portions of the range where the species is endangered.

For the Morro shoulderband snail, we considered whether the threats are geographically concentrated in any portion of the species' range at a biologically meaningful scale. We examined the following threats: Development; invasive species; wildfire; climate change; collection; agriculture and vegetation management; and predation; as well as cumulative effects. Threats do occur at different magnitudes across the range of the Morro shoulderband snail. For example, the East Los Osos and Downtown Los Osos population areas are at higher risk of development than other areas. Other population areas are at higher risk of fire, such as South Los Osos and Sand Spit. However, we found no concentration of threats in any portion of the Morro shoulderband snail's range at a biologically meaningful scale, so there is no population area where the species might be endangered. Therefore, no portion of the species' range provides a basis for determining that the species is in danger of extinction in a significant portion of its range, and we determine that the species is likely to become in danger of extinction within the foreseeable future throughout all of its range. This does not conflict with the courts' holdings in *Desert Survivors v. U.S. Department of the Interior*, 321 F. Supp. 3d 1011, 1070–74 (N.D. Cal. 2018), and *Center for Biological Diversity v. Jewell*, 248 F. Supp. 3d 946, 959 (D. Ariz. 2017) because, in reaching this conclusion, we did not need to consider whether any portions are significant and therefore did not apply the aspects of the Final Policy's definition of "significant" that those court decisions held were invalid.

Determination of Status

Our review of the best scientific and commercial data available indicates that the Morro shoulderband snail meets the Act's definition of a "threatened species." Therefore, we are reclassifying the Morro shoulderband snail as a threatened species in accordance with sections 3(20) and 4(a)(1) of the Act.

It is our policy, as published in the **Federal Register** on July 1, 1994 (59 FR 34272), to identify to the maximum extent practicable at the time a species is classified, those activities that would or would not constitute a violation of section 9 of the Act. The intent of this policy is to increase public awareness of the effect of a listing on proposed and ongoing activities within the range of the species being listed. Because we are reclassifying this species as a threatened species, the prohibitions in the section

9 of the Act will not automatically apply. We are, therefore, issuing a rule under section 4(d) of the Act (a "4(d) rule") to provide for the conservation of the species; section 4(d) authorizes us to apply any of the prohibitions in section 9 to a threatened species. The 4(d) rule, which includes a description of the kinds of activities that will or will not constitute a violation, complies with this policy.

II. Rule Issued Under Section 4(d) of the Act

Background

Section 4(d) of the Act contains two sentences. The first sentence states that the Secretary shall issue such regulations as she deems necessary and advisable to provide for the conservation of species listed as threatened. The U.S. Supreme Court has noted that statutory language like "necessary and advisable" demonstrates a large degree of deference to the agency (see *Webster v. Doe*, 486 U.S. 592 (1988)). Conservation is defined in the Act to mean the use of all methods and procedures which are necessary to bring any endangered species or threatened species to the point at which the measures provided pursuant to the Act are no longer necessary. Additionally, the second sentence of section 4(d) of the Act states that the Secretary may by regulation prohibit with respect to any threatened species any act prohibited under section 9(a)(1), in the case of fish or wildlife, or section 9(a)(2), in the case of plants. Thus, the combination of the two sentences of section 4(d) provides the Secretary with wide latitude of discretion to select and promulgate appropriate regulations tailored to the specific conservation needs of the threatened species. The second sentence grants particularly broad discretion to us when adopting the prohibitions under section 9.

The courts have recognized the extent of the Secretary's discretion under this standard to develop rules that are appropriate for the conservation of a species. For example, courts have upheld rules developed under section 4(d) as a valid exercise of agency authority where they prohibited take of threatened wildlife, or include a limited taking prohibition (see *Alsea Valley Alliance v. Lautenbacher*, 2007 U.S. Dist. Lexis 60203 (D. Or. 2007); *Washington Environmental Council v. National Marine Fisheries Service*, 2002 U.S. Dist. Lexis 5432 (W.D. Wash. 2002)). Courts have also upheld 4(d) rules that do not address all of the threats a species faces (see *State of Louisiana v. Verity*, 853 F.2d 322 (5th

Cir. 1988)). As noted in the legislative history when the Act was initially enacted, "once an animal is on the threatened list, the Secretary has an almost infinite number of options available to him [or her] with regard to the permitted activities for those species. He [or she] may, for example, permit taking, but not importation of such species, or he [or she] may choose to forbid both taking and importation but allow the transportation of such species" (H.R. Rep. No. 412, 93rd Cong., 1st Sess. 1973).

Exercising this authority under section 4(d), we have developed a rule that is designed to address the Morro shoulderband snail's specific threats and conservation needs. Although the statute does not require us to make a "necessary and advisable" finding with respect to the adoption of specific prohibitions under section 9, we find that this rule as a whole satisfies the requirement in section 4(d) of the Act to issue regulations deemed necessary and advisable to provide for the conservation of the Morro shoulderband snail. As discussed above under Summary of Biological Status and Threats, we have concluded that the Morro shoulderband snail is likely to become in danger of extinction within the foreseeable future primarily due to the ongoing impacts of development and invasive plants combined with projected impacts from climate change and increasing frequency and severity of wildfire. The provisions of this 4(d) rule promote conservation of the Morro shoulderband snail by encouraging management of the landscape in ways that meet both land management considerations and the conservation needs of the Morro shoulderband snail. The provisions of this rule are one of many tools that we will use to promote the conservation of the Morro shoulderband snail.

Provisions of the 4(d) Rule

This final 4(d) rule provides for the conservation of the Morro shoulderband snail by prohibiting all acts described under section 9(a)(1) of the Act, except take resulting from the activities listed below when conducted within habitats occupied by the Morro shoulderband snail. This final rule to reclassify the Morro shoulderband snail as a threatened species discusses take of individuals through removal or degradation of native habitat as one of the reasons for its decline. It also discusses the effects of more frequent or increased intensity of wildfire events associated with climate change. The specific focus of the exceptions to prohibitions included in this final 4(d)

rule is take directly associated with habitat restoration activities in disturbed or degraded native scrub and chaparral habitats throughout the estimated 2,638-ha (6,520-ac) range of the Morro shoulderband snail, and specific fire hazard reduction activities within the estimated range of the species.

Habitat restoration activities improve the condition and habitat suitability for the Morro shoulderband snail and other constituent scrub and chaparral species. Habitat within the range of the species has been subject to degradation that has reduced its suitability for the Morro shoulderband snail. This degradation is the result of invasion by nonnative plant species, particularly perennial veldt grass, that occurs after clearing of native plant communities or on unmanaged lands post-fire. Perennial veldt grass and other nonnative grass species can serve as ladder fuels and convey fires originating in the wildland-urban interface into the native scrub and chaparral communities that surround the community of Los Osos. Community concern over the frequency and intensity of wildfire is increasing every year with the increased frequency of catastrophic wildfire events in California. Widespread wildfires within the range of the Morro shoulderband snail could result in local extirpations of populations/occurrences of the Morro shoulderband snail and reduce or eliminate the ability of the species to recolonize recovering habitat post-fire, even with management of post-wildfire areas.

This final 4(d) rule sets forth the following exceptions to the prohibitions on incidental take when conducted within the range of the Morro shoulderband snail:

(1) Native habitat restoration activities, inclusive of invasive and/or nonnative species removal, conducted by a conservation organization (*e.g.*, the California Native Plant Society, Audubon Society, the Land Conservancy of San Luis Obispo County) pursuant to a Service-approved management or restoration plan.

(2) Fire hazard reduction activities implemented by the California Department of Forestry and Fire Protection (CALFIRE) in accordance with a Service-approved plan within the range of the Morro shoulderband snail.

Fire hazard reduction activities on legal parcels or other non-Federal land within the range of the species will be exempted from the take prohibitions of section 9(a)(1) of the Act. Anticipated fire reduction treatments include removal of downed, dead, or diseased vegetation, creation of shaded fuel

breaks, and mowing of nonnative grassland. We anticipate that these fire hazard reduction activities will have short-term effects on the Morro shoulderband snail. Implementation of fire hazard reduction activities will reduce the risk of catastrophic wildfires, which otherwise could result in local extirpations of Morro shoulderband snail occurrences/populations. Under the Act, “take” means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. Some of these provisions have been further defined in regulation at 50 CFR 17.3. Take can result knowingly or otherwise, by direct and indirect impacts, intentionally or incidentally. Regulating incidental take would help preserve the species’ remaining populations, slow their rate of decline, and decrease synergistic, negative effects from other threats.

We may issue permits to carry out otherwise prohibited activities, including those described above, involving threatened wildlife under certain circumstances. Regulations governing permits are codified at 50 CFR 17.32. With regard to threatened wildlife, a permit may be issued for the following purposes: For scientific purposes, to enhance propagation or survival, for economic hardship, for zoological exhibition, for educational purposes, for incidental taking, or for special purposes consistent with the purposes of the Act. The statute also contains certain statutory exemptions from the prohibitions, which are found in sections 9 and 10 of the Act.

We recognize the special and unique relationship with our State natural resource agency partners in contributing to conservation of listed species. State agencies often possess scientific data and valuable expertise on the status and distribution of endangered, threatened, and candidate species of wildlife and plants. State agencies, because of their authorities and their close working relationships with local governments and landowners, are in a unique position to assist us in implementing all aspects of the Act. In this regard, section 6 of the Act provides that we shall cooperate to the maximum extent practicable with the States in carrying out programs authorized by the Act. Therefore, any qualified employee or agent of a State conservation agency that is a party to a cooperative agreement with us in accordance with section 6(c) of the Act, who is designated by his or her agency for such purposes, will be able to conduct activities designed to conserve the Morro shoulderband snail

that may result in otherwise prohibited take without additional authorization.

Nothing in this 4(d) rule will change in any way the recovery planning provisions of section 4(f) of the Act, the consultation requirements under section 7 of the Act, or our ability to enter into partnerships for the management and protection of the Morro shoulderband snail. However, interagency cooperation may be further streamlined through planned programmatic consultations for the species between us and other Federal agencies, where appropriate.

III. Common Name of Listed Entity

As a result of the new data and supportive references noted earlier in this rule, we recognize the change in the common name of the listed entity *Helminthoglypta walkeriana* as the Morro shoulderband snail, without the synonym “banded dune snail.” We include this change in nomenclature for the species under Regulation Promulgation, below.

Required Determinations

National Environmental Policy Act (42 U.S.C. 4321 et seq.)

We have determined that environmental assessments and environmental impact statements, as defined under the authority of the National Environmental Policy Act (NEPA; 42 U.S.C. 4321 *et seq.*), need not be prepared in connection with determining a species’ listing status under the Endangered Species Act. We published a notice outlining our reasons for this determination in the **Federal Register** on October 25, 1983 (48 FR 49244). This position was upheld by the U.S. Court of Appeals for the Ninth Circuit (*Douglas County v. Babbitt*, 48 F.3d 1495 (9th Cir. 1995), cert. denied 516 U.S. 1042 (1996)).

Government-to-Government Relationship With Tribes

In accordance with the President’s memorandum of April 29, 1994 (Government-to-Government Relations with Native American Tribal Governments; 59 FR 22951), Executive Order 13175 (Consultation and Coordination with Indian Tribal Governments), and the Department of the Interior’s manual at 512 DM 2, we readily acknowledge our responsibility to communicate meaningfully with recognized Federal Tribes on a government-to-government basis. In accordance with Secretarial Order 3206 of June 5, 1997 (American Indian Tribal Rights, Federal-Tribal Trust Responsibilities, and the Endangered Species Act), we readily acknowledge

our responsibilities to work directly with Tribes in developing programs for healthy ecosystems, to acknowledge that Tribal lands are not subject to the same controls as Federal public lands, to remain sensitive to Indian culture, and to make information available to Tribes.

We did not receive any comments from Tribes on the proposed rule. We have determined that no Tribes will be affected by this rule because there are no Tribal lands or interests within or adjacent to Morro shoulderband snail habitat.

References Cited

A complete list of references cited in this rulemaking is available on the internet at <https://www.regulations.gov> and upon request from the Ventura Fish

and Wildlife Office (see **FOR FURTHER INFORMATION CONTACT**).

Authors

The primary authors of this final rule are the staff members of the Fish and Wildlife Service’s Species Assessment Team and the Ventura Fish and Wildlife Office.

List of Subjects in 50 CFR Part 17

Endangered and threatened species, Exports, Imports, Reporting and recordkeeping requirements, Transportation.

Regulation Promulgation

Accordingly, we amend part 17, subchapter B of chapter I, title 50 of the Code of Federal Regulations, as set forth below:

PART 17—ENDANGERED AND THREATENED WILDLIFE AND PLANTS

■ 1. The authority citation for part 17 continues to read as follows:

Authority: 16 U.S.C. 1361–1407; 1531–1544; and 4201–4245, unless otherwise noted.

■ 2. Amend § 17.11, in paragraph (h), by removing the entry for “Snail, Morro shoulderband (=Banded dune)” and adding the entry “Snail, Morro shoulderband” in its place under SNAILS in the List of Endangered and Threatened Wildlife to read as follows:

§ 17.11 Endangered and threatened wildlife.

* * * * *

(h) * * *

Common name	Scientific name	Where listed	Status	Listing citations and applicable rules
*	*	*	*	*
		SNAILS		
Snail, Morro shoulderband.	<i>Helmin thoglypta walkeriana.</i>	Wherever found	T	59 FR 64613, 12/15/1994; 87 FR [INSERT FEDERAL REGISTER PAGE WHERE THE DOCUMENT BEGINS], 2/3/2022; 50 CFR 17.45(b); ^{4d} 50 CFR 17.95(f). ^{CH}
*	*	*	*	*

■ 3. Amend § 17.45 by adding paragraph (b) to read as follows:

§ 17.45 Special rules—snails and clams.

* * * * *

(b) Morro shoulderband snail (*Helminthoglypta walkeriana*)—(1) *Prohibitions.* The following prohibitions that apply to endangered wildlife also apply to the Morro shoulderband snail. Except as provided under paragraph (b)(2) of this section and §§ 17.4 and 17.5, it is unlawful for any person subject to the jurisdiction of the United States to commit, to attempt to commit, to solicit another to commit, or cause to be committed, any of the following acts in regard to this species:

- (i) Import or export, as set forth at § 17.21(b) for endangered wildlife.
- (ii) Take, as set forth at § 17.21(c)(1) for endangered wildlife.

(iii) Possession and other acts with unlawfully taken specimens, as set forth at § 17.21(d)(1) for endangered wildlife.

(iv) Interstate or foreign commerce in the course of commercial activity, as set forth at § 17.21(e) for endangered wildlife.

(v) Sale or offer for sale, as set forth at § 17.21(f) for endangered wildlife.

(2) *Exceptions from prohibitions.* In regard to this species, you may:

(i) Conduct activities as authorized by a permit under § 17.32.

(ii) Take, as set forth at § 17.21(c)(2) through (4) for endangered wildlife.

(iii) Take, as set forth at § 17.31(b).

(iv) Take incidental to an otherwise lawful activity caused by:

- (A) Native habitat restoration activities, inclusive of invasive and/or nonnative species removal, conducted

by a conservation organization pursuant to a Service-approved management or restoration plan.

(B) Fire-hazard reduction activities implemented by the California Department of Forestry and Fire Protection in accordance with a Service-approved plan within the range of the Morro shoulderband snail.

(v) Possess and engage in other acts with unlawfully taken wildlife, as set forth at § 17.21(d)(2) for endangered wildlife.

Martha Williams,

Principal Deputy Director, Exercising the Delegated Authority of the Director, U.S. Fish and Wildlife Service.

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