# 1 Introduction

# 1.1 Overview of the Midpeninsula Regional Open Space District

#### 1.1.1 Overview

The Midpeninsula Regional Open Space District (Midpen) is a public agency formed by voter initiative in 1972. Midpen's purpose is to acquire and permanently protect a regional greenbelt of open space lands, preserve and restore wildlife habitat, watersheds, viewsheds, and fragile ecosystems, and provide opportunities for low-intensity recreation and environmental education. In 2004 Midpen expanded to protect the San Mateo County Coast. Reflecting the interests of Coastside residents, Midpen's mission on the San Mateo County Coastside includes preserving the rural character and agricultural heritage of the coastside and encouraging viable agricultural use of land resources. Midpen's mission outlines the critical functions of the agency, balancing the preservation of open space with active land restoration, low-intensity public recreation, and viable agricultural use. Midpen has preserved a regional greenbelt system of nearly 65,000 acres of public land and manages 26 open space preserves (OSPs) and other land under management agreements (referred to as "Midpen lands" throughout this document).

The Wildland Fire Resiliency Program (Program) addresses wildland fire management across all Midpen owned and managed lands.

# 1.1.2 History

Post-World War II was a time of rapid growth in the San Francisco Bay Area. As tract housing and commercial development began to dominate the "Valley of Heart's Delight," concern for the preservation of the mid-peninsula's irreplaceable foothill and bayland natural resources mounted among open space advocates. Midpen was created by successfully placing a voter initiative, Measure R, on the ballot in 1972.

Measure R will preserve open space by creating the Midpeninsula Regional Park District (currently named the Midpeninsula Regional Open Space District). Open space is our green backdrop of hills. It is rolling grasslands — cool forests in the Coast Range — orchards and vineyards in the sun. It is the patch of grass between communities where children can run. It is uncluttered baylands where water birds wheel and soar, where blowing cordgrass yields its blessings of oxygen, where the din of urban life gives way to the soft sounds of nature. It is the serene, unbuilt, unspoiled earth that awakens all our senses and makes us whole again ... it is room to breathe.

Midpen was first created in northwestern Santa Clara County. Fulfilling the conservationists' original dream to include portions of San Mateo County within the Midpen jurisdiction, voters expanded the boundaries in 1976 to include southern San Mateo County. Midpen further expanded in 1992, by annexing a small portion of Santa Cruz County. With the final approval of the Coastside Protection Program on September 7, 2004, Midpen's boundary was extended to the Pacific Ocean in San Mateo County, from the southern borders of Pacifica to the Santa Cruz county line.

# 1.1.3 Mission Statement and Organization

Midpen's mission is:

"To acquire and preserve a regional greenbelt of open space land in perpetuity, protect and restore the natural environment, and provide opportunities for ecologically sensitive public enjoyment and education."

## Midpen's Coastside mission is:

"To acquire and preserve in perpetuity open space land and agricultural land of regional significance, protect and restore the natural environment, preserve rural character, encourage viable agricultural use of land resources, and provide opportunities for ecologically sensitive public enjoyment and education."

Midpen is divided into seven geographic wards, each represented by a publicly elected Board member for a four-year term.

# 1.2 Wildland Fire Resiliency Program Overview

# 1.2.1 Purpose, Need, and Objectives

Wildland fire prevention, preparation, and response are a part of Midpen's land stewardship. California's fire season is now longer and more intense due in part to dense regrowth of historically logged forests, more than a century of fire suppression, increased development in the WUI, and a changing climate. To meet these growing challenges, Midpen is establishing this Program to allow for increased and environmentally sensitive vegetation management. Vegetation management activities can reduce the potential for severe wildland fire. A major wildland fire on unmanaged lands likely will have more substantial ecosystem, recreation, carbon, and resource impacts than the impacts from the work to manage the vegetation.

The objectives of the Program are as follows:

1. Manage vegetation (including invasive fire-prone trees) to establish healthy, resilient, fire-dependent or fire-adapted ecosystems, furthering Midpen's mission to protect and restore the diversity and integrity of the ecological processes on Midpen lands and facilitate healthy post-fire recovery.

- 2. Integrate Native American traditional ecological knowledge practices of natural resource management, particularly as they relate to prescribed fire, that promote ecological resiliency and enhance biodiversity.
- Manage vegetation and infrastructure on Midpen lands to reduce wildland fire
  risks, improve wildland fire fighting capabilities and coordination, and improve
  overall safety to reduce the harmful effects of wildland fire on people, property,
  and natural resources.
- 4. Provide an adaptive framework for periodic review of and revisions to Midpen decisions in response to a changing climate, improved knowledge, and improved technology. This framework also considers competing Midpen priorities, capacity, funding and fiscal sustainability, and partnerships to determine the location, scale, and timing of future vegetation management activities.

# 1.2.2 Framework of the Program

This Program documents and permits the various planning efforts needed to meet Midpen's objectives for establishing wildland fire resiliency on its lands. It is meant to guide a comprehensive approach to vegetation management, including pre- and post-response activities to wildland fire on Midpen lands.

This document is organized as follows:

- **Introduction:** Provides an overview of Midpen lands, management, and purpose of the Program;
- **Background and Environmental Setting:** Describes the open space preserves and managed land system, resources, landscape, and other current site conditions;
- Wildland Fire Resiliency Program Policies: Identifies Midpen's Resource Management Policies that require updating to support the Program;
- Vegetation Management Plan (VMP): Addresses creation and maintenance of fuelbreaks, fuel management zones, and defensible space zones using vegetation management techniques addressed in Midpen's Integrated Pest Management Program (IPMP);
- Prescribed Fire Plan (PFP): Addresses the methods and implementation of prescribed fire to manage fuel and improve ecosystem health;
- Wildland Fire Pre-Plan/Resource Advisor Maps: Describes the creation of
  Resource Advisor maps for each OSP and other managed land (or groups of
  managed lands) that will include information on existing conditions,
  infrastructure, and resources constraints that can aid fire suppression activities and
  locate sensitive resource areas that merit protection from potential damage due to
  fire or fire suppression activities;
- Monitoring Plan: Provides a framework for recording pre-project conditions, vegetation treatment response, and fuels inventories to inform future adaptive management techniques; and

• **Maximum Acreage of Annual Treatment:** Describes the maximum treatment areas by activity per year.

# 1.2.3 Planning and Development Process

### **Collaboration and Approval of the Program**

The Program requires approval by the Midpen Board of Directors (Board). The Program development process has included numerous public meetings, in-person meetings, phone calls and email feedback from partners and stakeholders, including cooperating and collaborative agencies, local fire agencies, tribes, and the public (including non-governmental organizations), including:

- California Department of Forestry and Fire Protection (CAL FIRE) (Santa Clara and San Mateo-Santa Cruz Units)
- The Amah Mutsun Tribal Band
- San Mateo County Fire Department
- Santa Clara County Fire Department
- Woodside Fire Protection District
- Los Altos Hills County Fire District
- San Mateo County Fire Safe Council
- Santa Clara County Fire Safe Council
- The Sierra Club, Loma Prieta Chapter
- National Audubon Society, Sequoia
- The University of California, Berkeley Forests
- Communities of Grandview/Espinosa, Heather Heights, Redwood Estates, Blackberry Hill, and Skyline/Kings Mountain

The Program has also been reviewed by the Board's Planning and Natural Resources Committee. Moreover, during the week of August 19th, public meetings were held in the communities of Half Moon Bay, Los Gatos, and Woodside. The objective of these meetings was to communicate Midpen's Program components and invite early public comments on its development.

Communication with local fire departments is also a critical component of the plan. The following fire departments have been contacted or will be contacted during more detailed development of the PFP:

- Coastside Fire Protection District
- La Honda Fire Brigade
- Santa Clara County Fire Department
- Palo Alto Fire Department
- Mountain View Fire Department
- San Jose Fire Department
- National Park Service
- San Carlos/Redwood City Fire Department

• Kings Mountain Fire Brigade

### California Environmental Quality Act Process (CEQA)

The approval and implementation of this Program requires review under CEQA, with Midpen serving as the lead agency. A Program Environmental Impact Report (EIR) has been determined to be the appropriate document under CEQA. The Program EIR addresses the potential impacts from the Vegetation Management Plan in detail. Projects or activities under that plan would be able commence as soon as the Program EIR is completed and certified. The Program EIR also addresses the potential environmental impacts of the PFP and any new infrastructure that may be built under the Wildland Fire Pre-Plan, at a programmatic level. Additional CEQA review likely tiered from the Program EIR may be required to implement these plans and activities if these are not sufficiently addressed in the 2020 Program EIR.

### **Permitting**

Activities or projects carried out under the Program may require permits from resource agencies or local jurisdictions before the work can commence. Table 1-1 summarizes some of the permits that may be required.

Table 1-1 Potential Permits or Approvals Needed for the Program

Agency	Approval or Notification	Component of Program
U.S. Army Corps of Engineers	Clean Water Act, Section 404, Nationwide Permit 14	Potential impacts to jurisdictional waters of the U.S., such as for stream crossings for equipment or infrastructure.
U.S. Fish and Wildlife Service	Endangered Species Act Biological Opinion and Take Authorization	If any activities could result in take of a threatened, endangered, or candidate species.
California Department of Fish and	Trustee agency for CEQA review	During CEQA compliance process.
Wildlife	1602 Streambed Alteration Agreement	For potential impacts to riparian areas or any stream crossings.
	2081 Incidental Take Permit or Consistency Determination	If any activities could result in the death of a state listed species.
California Department of Transportation (Caltrans)	Encroachment permits	For <u>trimming or removal of trees</u> <u>within and</u> encroachment on Caltrans right-of-way
	Transportation permits	For oversize or overweight vehicles traveling on Caltrans right-of-way.
California Coastal Commission (sought through applicable county planning and building department)	Coastal Development Permit or an exemption	For vegetation management or other development in the Coastal Zone

Agency	Approval or Notification	Component of Program
California Department of Forestry and Fire Protection	Burn Permit	For any prescribed <u>or pile</u> burn activities <u>in the State Responsibility</u> <u>Area</u>
Bay Area Air Quality Management District	Prescribed Burning Smoke Management Plan (Form Rx-1)	For any prescribed burn activities
	Open Burning Regulation 5 Notification Form	For any pile burn activities
Monterey Bay Air Resources District	Smoke Management Plan and Smoke Management Permit	For any prescribed burn activities over 10 acres.
	Prescribed Burn Permit	For any prescribed or pile burn activities.
San Francisco Regional Water Quality Control Board or Monterrey	Section 401 Water Quality Certification	If a Section 404 permit is needed
Regional Water Quality Control Board	National Pollutant Discharge Elimination System (NPDES) General Permit	For ground disturbing impacts over 1 acre in size
	Waste Discharge Requirement	For potential impacts to waters of the state that are not waters of the U.S.
Local Public Works Departments, Building Departments (San Mateo County, Santa Clara County, Santa Cruz County, and local cities)	Various types of encroachment, building, planning, or grading permits	For encroachment into roadways to perform work, for any new fire protection infrastructure that may be needed.
	Local tree protection and brush removal permits based on local ordinances of various counties and cities	For potential impacts on trees and brush
	Transportation/ oversize or overweight permits	For oversize or overweight vehicles traveling on local rights-of-way.

# 2 Background and Environmental Setting

# 2.1 Program Area

# 2.1.1 Midpen Lands

#### **Managed Land**

Midpen's lands are located within the Santa Cruz Mountain Region and include the San Francisco Peninsula between the Pacific Ocean and the San Francisco Bay (Figure 2-1). Midpen's boundary extends from San Carlos in San Mateo County in the north to the unincorporated Santa Clara County area located south of Los Gatos in the south.

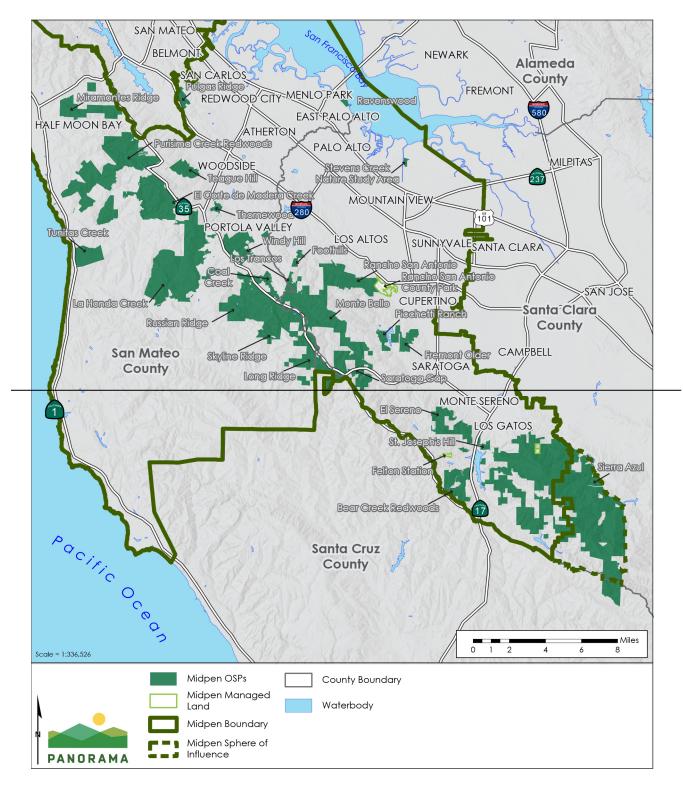
The unique location is dominated by the Santa Cruz Mountains, which is influenced by a Mediterranean climate composed of mild, wet winters and long, hot, and dry summers cooled by coastal fog. The San Andreas Fault, one of the world's longest and most active faults, cuts through the eastern side of the Santa Cruz Mountains. Continual seismic movement along the fault and the differing composition of the underlying rocks have created many soil types and terrain features, including steep, narrow canyons, rolling hills, and flat bay lands. Habitat communities on Midpen lands represent a wide spectrum, including bayside tidal wetlands, grasslands, oak woodlands, riparian corridors, coyote brush scrubland, and evergreen forests. Of the 26 OSPs, 24 are open to the public free of charge, 365 days a year from sunrise to one-half hour after sunset. Table 2-1 summarizes key information for each of the 26 OSPs and other Midpen-managed lands. As Midpen continues to expand its land holdings, the amount of vegetation management work conducted under the Program within its lands is expected to also increase. Midpen continues to actively acquire new lands to preserve as open space in perpetuity. For example, between 2015 and 2020, Midpen added approximately 1,600 acres to its land holdings. Midpen lands depicted on maps throughout the Program represent the conditions at the time of preparation. The lands covered by the Program are subject to change as Midpen continues to actively acquire new lands.

#### Facilities within OSPs and Managed Land

# Recreational, Administrative, and Operational Facilities

Midpen owns and operates recreational, administrative, and operational facilities. Recreational facilities available to the public include trails, restrooms, a visitor center, and parking areas. One campground, Black Mountain Backpack Camp, is available for visitors within Monte Bello OSP. Administrative and operational facilities include two field offices, two satellite field offices, the main administrative office, and various residences occupied by employees and members of the public. The field offices are located at Rancho San Antonio OSP and Skyline Ridge OSP.

Figure 2-1 **Midpen Lands** SAN MATEO **NEWARK** Alameda SAN CARLOS County **FREMONT** REDWOOD CITY-MENLO PARK ROWE Miramontes Ridge EAST PALO ALTO HALF MOON BAY ATHERTON PALO ALTO MILPITA'S WOODSIDE Stevens Greek ature Study Area MOUNTAIN VIEW 101 ORTOLA VALLEY rs Creek EQS ALTOS SUNNYVALE SANTA CLARA LOS ALTOS Rencho Son Antento
Hillis Rencho Son Antento County Park SAN JOSE CUPERTINO La Honda Creek Monte Bello Santa Clara Piechetti Ranch Russian Ridge County CAMPBELL San Mateo Skyline Ridge SARATOGA County Long Ridge archega Cap MONTE SERENO LŐS GATOS Felton Stati Bear Creek Redwoods Pacific Ocean Santa Cruz County Miles 8 Scale = 1:336,526 Midpen OSPs County Boundary Midpen Managed Waterbody Land Midpen Boundary Midpen Sphere of Influence PANORAMA



Source: (USGS, 2013; USGS, 2016; Tele Atlas North America, Inc., 2018; Midpen, 2019c)

Table 2-1 Summary of Midpen Lands

Managed Land	Acres	Description
Bear Creek Redwoods OSP	1,437 •	Major amenities: trails open to hiking and horseback riding, stables, historical/cultural artifacts, historic complex, Upper Lake, restrooms, parking lot Major uses: recreation, horse boarding Primary vegetation: redwood and fir forests, oak woodland
Coal Creek OSP	508 • •	Major amenities: trails open to hiking, horseback riding, biking, and dogs on-leash Major uses: recreation Primary vegetation: oak woodland, grassland
El Corte de Madera Creek OSP	2,906	Major amenities: trails open to hiking, horseback riding, and biking; coastal views; sandstone formation; picnic tables; creeks; restrooms parking lots Major uses: recreation Primary vegetation: mixed evergreen and redwood forest
El Sereno OSP	1,430 •	Major amenities: trails open to hiking, horseback riding, biking, and dogs on-leash; creeks; permit parking Major uses: recreation, fire escape route Primary vegetation: chaparral
Felton Station	44 •	Not currently open to the public
Foothills OSP	212 •	Major amenities: trail open to hiking, horseback riding, and dogs on- leash; scenic viewpoint; roadside parking Major uses: recreation Primary vegetation: chaparral, oak woodland
Fremont Older OSP	739 •	Major amenities: trails open to hiking, biking, and dogs on-leash; benches; restrooms; historic residence; parking lot and roadside parking Major uses: recreation Primary vegetation: chaparral, grassland, oak woodlands
La Honda Creek OSP	6,144	Major amenities: trails open to hiking, horseback riding, and dogs on- leash; vista point; active grazing; creeks; restrooms; historic barns; residences; parking lots Major uses: agriculture, recreation, coastal field office Primary vegetation: redwood and oak forests, grassland
Long Ridge OSP	2,226	Major amenities: trails open to hiking, horseback riding, biking, and dogs on-leash; benches; scenic vistas; ponds; creeks; roadside parking Major uses: recreation Primary vegetation: grassland, hardwood forest, oak savanna

Managed Land	Acres	Description		
Los Trancos OSP 274		<ul> <li>Major amenities: trails open to hiking and horseback riding, San Andreas fault trail, benches, creeks, restrooms, parking lot and roadside parking</li> <li>Major uses: recreation</li> </ul>		
		Primary vegetation: forest, grassland, oak woodland		
Miramontes Ridge OSP	1,716	<ul> <li>Not currently open to the public</li> <li>Major uses: agriculture, horse stable</li> <li>Primary vegetation: coastal scrub</li> </ul>		
Monte Bello OSP	3,537	<ul> <li>Major amenities: trails open to hiking, horseback riding, and biking; scenic vistas; campsite; creeks; benches; restrooms; parking lot</li> <li>Major uses: recreation</li> </ul>		
		Primary vegetation: chaparral, forest, grassland		
Picchetti Ranch OSP	308	<ul> <li>Major amenities: trails open to hiking and horseback riding, vineyard, ponds, restrooms, historic homestead and ranch, Picchetti Winery, picnic tables, parking lots and roadside parking</li> </ul>		
		<ul> <li>Major uses: agriculture/winery, recreation, small events</li> <li>Primary vegetation: chaparral, oak woodland</li> </ul>		
Pulgas Ridge OSP	366	<ul> <li>Major amenities: trails open to hiking and dogs on-leash, benches, restrooms, off-leash dog area, parking lot</li> <li>Major uses: recreation</li> </ul>		
		Primary vegetation: chaparral, hardwood forest		
Purisima Creek Redwoods OSP	4,798	<ul> <li>Major amenities: trails open to hiking, horseback riding, and biking; creeks; scenic vistas; picnic tables; benches; restrooms; parking lots; active grazing</li> </ul>		
		Major uses: agriculture, recreation		
		Primary vegetation: coastal scrub, redwood forest		
Rancho San Antonio OSP	3,988	<ul> <li>Major amenities: trails open to hiking, horseback riding, and (limited) biking; benches; water troughs; vista points; Deer Hollow Farm and ranch buildings; Foothills field office; historic Grant Cabin; restrooms; parking lots</li> </ul>		
		<ul> <li>Major uses: education, agriculture/farming, recreation, maintenance and patrol field office</li> </ul>		
		Primary vegetation: chaparral, hardwood forest		
Rancho San Antonio County Park	287	<ul> <li>Major amenities: trails open to hiking, horseback riding, and (limited) biking; picnic tables; benches; model aircraft field; water troughs; vista points; restrooms; parking lots</li> </ul>		
		Major uses: recreation		
		Primary vegetation: grassland, oak woodland		
Ravenswood OSP	374	<ul> <li>Major amenities: trails open to hiking and biking, benches, observation decks, boardwalk, parking lot</li> </ul>		
		<ul> <li>Major uses: recreation, commuter route</li> <li>Primary vegetation: marshland</li> </ul>		

Managed Land	Acres	Description
Russian Ridge OSP	3,491	Major amenities: trails open to hiking, horseback riding, and biking; viewing platforms; creeks; commemorative site; restrooms; parking lots; active grazing
		Major uses: agriculture, recreation
		Primary vegetation: conifer forest, grassland
Saratoga Gap OSP	1,613	<ul> <li>Major amenities: trails open to hiking, horseback riding, and biking; sandstone rock outcrops; parking lots and roadside parking</li> <li>Major uses: recreation</li> </ul>
		Primary vegetation: oak and Douglas fir forests
Sierra Azul OSP and Easements	19,023	Major amenities: trails open to hiking, horseback riding, biking, and dogs on-leash; scenic vistas; shade structures; picnic tables; water troughs; Mount Umunhum Summit; Ceremonial Space; natural/cultural interpretation restrooms; parking lots and roadside parking
		Major uses: recreation
		<ul> <li>Primary vegetation: chaparral, oak woodland forest, serpentine grassland</li> </ul>
Skyline Ridge OSP	2,143	<ul> <li>Major amenities: trails open to hiking, horseback riding, and biking; picnic tables; Alpine Pond; Horseshoe Lake; creeks; multimedia nature tours; David C. Daniels Nature Center; Skyline field office; restrooms; parking lot</li> </ul>
		<ul> <li>Major uses: agriculture, recreation, maintenance and patrol field office</li> </ul>
		Primary vegetation: grassland, mixed evergreen forest
St. Joseph's Hill OSP	270	<ul> <li>Major amenities: trails open to hiking, horseback riding, biking, and dogs on-leash; benches; scenic vistas; roadside parking</li> </ul>
		Major uses: recreation
		Primary vegetation: chaparral, grassland, oak woodland
Stevens Creek	55	<ul> <li>Major amenities: trails open to hiking and biking, parking lots</li> </ul>
Shoreline Nature Study Area		Major uses: recreation
		Primary vegetation: wetland
Teague Hill OSP	626	Major amenities: trails open to hiking and horseback riding
		Major uses: recreation     Primary vagetation: Daugles fir sale madrane forcet
		Primary vegetation: Douglas fir, oak, madrone forest
Thornewood OSP	167	<ul> <li>Major amenities: trails open to hiking, horseback riding, and dogs or leash; Schilling Lake; parking lot; historic residence</li> </ul>
		Major uses: recreation     Primary vagetation; ask and reduced forest.
		Primary vegetation: oak and redwood forest
Tunitas Creek OSP	1,660	Not currently open to the public
		Major uses: agriculture     Primary vagetation; agestal agrub
		Primary vegetation: coastal scrub

Managed Land	Acres	Description
Windy Hill OSP	1,414	<ul> <li>Major amenities: trails open to hiking, horseback riding, biking, and dogs on-leash; benches; picnic tables; Sausal pond; restrooms; parking lots and roadside parking; historic complex</li> </ul>
		Major uses: recreation
		Primary vegetation: grassland, oak and redwood forest

Note: Midpen has actively preserved nearly 65,000 acres, of which approximately 60,000 acres are managed by Midpen; the remaining acreage is managed by other park and open space entities.

#### **Historic Sites**

Several historic sites are located within OSPs. Examples of historic sites include the Alma College Cultural Landscape, a historic residence and garden in Fremont Older OSP, historic barns in La Honda Creek OSP, Picchetti Brothers Winery and surrounding homestead, Deer Hollow Farm's historic ranch buildings, Thornewood residence, and the Hawthorns Historic Complex.

#### **Roads and Trails**

Midpen maintains 21 miles of paved roads and 235 miles of unpaved roads within the OSPs. Over 240 miles of trails are available to the public (Midpen, 2020a). Segments of four regional trails are located within OSPs, including the Bay Area Ridge Trail, Skyline-to-the-Sea Trail, Bay to Ridge Trail, and the Bay Trail.

State Route (SR) 35, also known as Skyline Boulevard, runs adjacent to 15 of the 26 OSPs, serving as a key gateway to Skyline Ridge OSP and other managed areas. Several major roadways provide access to Midpen lands, including SR 9, 17, 35, 84, and 92, as well as Interstate 280. Private vehicles are not permitted within OSPs except in parking lots and access roads/driveways leading to them.

#### **Utilities**

Water for use in administrative buildings and public facilities on Midpen OSPs generally comes from springs, creeks, and groundwater or from commercial water supplies. Irrigation water for agricultural production on Midpen OSPs comes from on-site surface waters and wells. Wastewater from public restrooms on Midpen OSPs is stored in on-site vaults before removal and disposal by local service providers. Solid waste disposal services on Midpen OSPs are provided for employee and tenant residences by local providers.

Pacific Gas and Electric Company (PG&E) maintains power lines and underground gas lines through many of the OSPs. PG&E maintains these facilities through easements. Standards for vegetation management and clearance requirements under PG&E utility lines are governed by General Order 95, Section III of the California Public Utilities Commission. PG&E retains the responsibility for vegetation clearance associated with PG&E infrastructure.

# 2.1.2 Surrounding Lands

### **Nearby Communities and Development**

Midpen lands lie entirely within the Santa Cruz Mountain Region. The eastern edge is heavily influenced by the urban areas of San Francisco, San Jose, and San Francisco Peninsula cities. Low density suburban development also extends from the flat bay lands westward into the foothills of the Santa Cruz Mountains where narrow, meandering roadways provide access to single family homes situated among the chaparral-covered hillsides. Development on the lower western slopes of the Santa Cruz Mountains consists of scattered small communities and rural residences. Much of the land in the upper portions of the Santa Cruz Mountains includes natural areas that are held in OSPs and parks.

Midpen's jurisdiction encompasses 17 cities (Atherton, Cupertino, East Palo Alto, Half Moon

Bay, Los Altos, Los Altos Hills, Los Gatos, Menlo Park, Monte Sereno, Mountain View, Palo Alto, Portola Valley, Redwood City, San Carlos, Saratoga, Sunnyvale, and Woodside) and unincorporated areas in San Mateo, Santa Clara, and northern Santa Cruz counties with a combined population of over 700,000 residents. Although land uses within OSPs are predominantly natural open space and agriculture (primarily conservation grazing), many of the OSPs abut small areas of low-density residential development. Residential land uses are adjacent to Midpen OSPs. According to CAL FIRE, approximately 95 percent of all fires are human caused. Fires started in residential areas in the WUI can ignite natural areas and spread.

The majority of the wildland-urban interface (WUI) (refer to Figure 2-2) along the OSPs has a CAL FIRE Fire Hazard Severity Zone rating of "High" or "Very High" (refer to Figure 2-3). Fire can spread rapidly throughout

#### WILDLAND-URBAN INTERFACE

The Wildland-Urban Interface, or WUI, refers to the area where houses and other structures are built close to, or intermingled with, undeveloped wildlands.

The WUI poses significant concern in the event of fire, as it combines the characteristics of wildlands (where larger fires generally occur) and developed areas (where lives, homes, and property are vulnerable).

Within Midpen lands, many neighborhoods fall within this interface. As a result, vegetation management on Midpen lands not only enhances ecological resiliency of the natural lands, it also minimizes fire hazard for adjacent communities.

WUI areas through adjacent structures and/or vegetation, or by ember dispersion. Most of the land owned by Midpen is within the WUI. Community Wildfire Protection Plans (CWPPs) have identified priority areas for fuel reduction within several OSPs, including Pulgas Ridge, Bear Creek Redwoods, and Sierra Azul OSPs and along Highway 35 within several OSPs.

#### **Open Space**

Midpen OSPs abut open space owned and maintained by various agencies, as shown in Figure 2-4. Agencies with the largest quantity of open space land in the surrounding area include California State Parks, San Mateo County Parks, and Santa Clara County Parks.

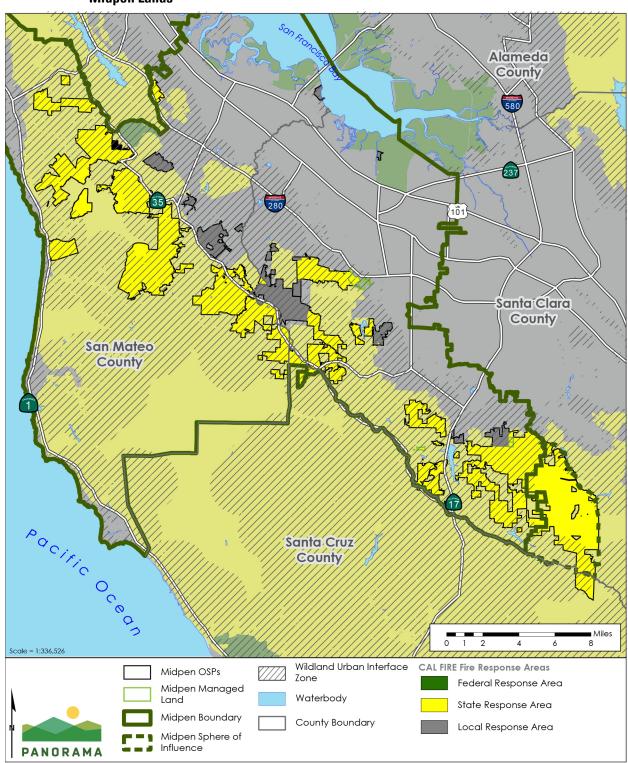


Figure 2-2 CAL FIRE Wildland Urban Interface and Responsibility Areas Within and Surrounding Midpen Lands

Source: (USGS, 2013; USGS, 2016; Tele Atlas North America, Inc., 2018; CAL FIRE, 2007; Midpen, 2018c; Midpen, 2019c)

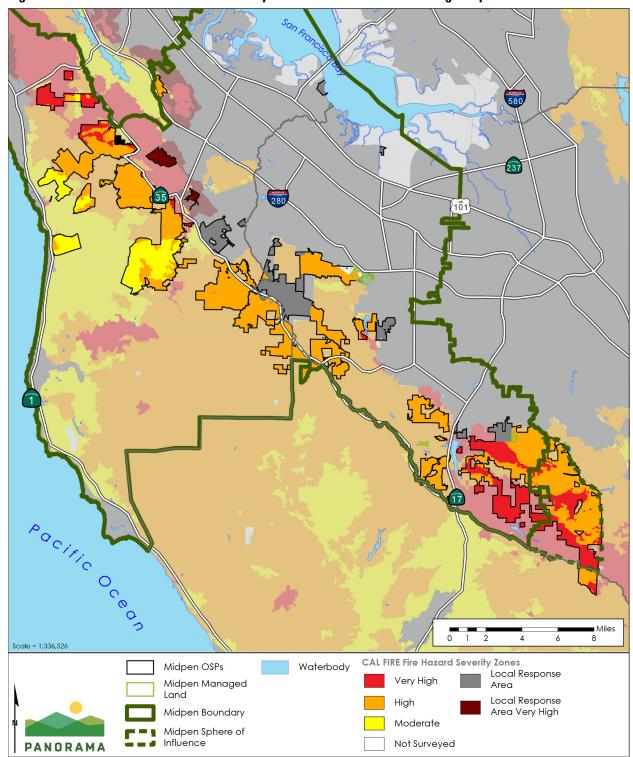


Figure 2-3 CAL FIRE Fire Hazard Severity Zones Within and Surrounding Midpen Lands

Source: (USGS, 2013; USGS, 2016; Tele Atlas North America, Inc., 2018; CAL FIRE, 2007; Midpen, 2018c; Midpen, 2019c)

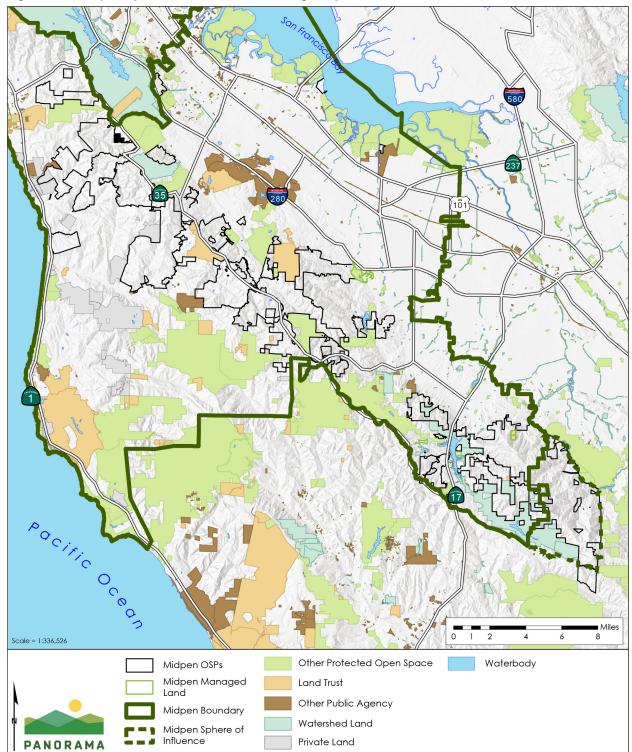


Figure 2-4 Open Space Within and Surrounding Midpen Lands

Source: (USGS, 2013; USGS, 2016; Tele Atlas North America, Inc., 2018; Midpen, 2018a; Midpen, 2019c)

Valley Water (formerly known as the Santa Clara Valley Water District) operates 10 reservoirs within Midpen's jurisdiction (but outside of the OSPs), that provide water for surrounding communities. These reservoirs are within open space lands owned and/or managed by Valley Water or Santa Clara County Parks. Several reservoirs are adjacent to Midpen OSPs. Stevens Creek Reservoir is located between Picchetti Ranch OSP and Fremont Older OSP. Lexington Reservoir, Guadalupe Reservoir, and Almaden Reservoir are located within the vicinity of Sierra Azul, St. Joseph's Hill, and Bear Creek Redwoods OSPs.

### **Agriculture**

Agricultural production on the San Francisco Peninsula dates back to the late 18<sup>th</sup> century. Today, small family-owned farming and ranching businesses play an important role in the coastal economy, production of locally sourced food, and continuing the agricultural heritage of the area. The key types of agriculture in the area are livestock grazing, cultivated agriculture, nursery crops, and vineyards. Midpen actively manages approximately 6,500 acres of land under its Conservation Grazing Program. Approximately 5,800 acres of land within 0.25 mile of Midpen-owned lands are zoned for agriculture.

# 2.2 Resources on Midpen Lands

# 2.2.1 Agricultural Lands

Midpen manages approximately 6,500 acres under its current Conservation Grazing Program. Midpen uses conservation grazing to manage vegetation to enhance the diversity of native plants and animals; for fire protection; to help sustain the local agricultural economy; and to foster the region's rural heritage. More about Midpen's Conservation Grazing Program can be found here <a href="https://www.openspace.org/our-work/resource-management/grazing">https://www.openspace.org/our-work/resource-management/grazing</a>.

Five Midpen OSPs (La Honda Creek, Russian Ridge, Purisima Creek, Skyline Ridge, and Tunitas Creek) use conservation grazing as a method of vegetation management, including wildland fuel reduction. These OSPs are along the San Mateo County Coast. Midpen leases suitable agricultural lands to tenants with expertise in managing livestock for this purpose. All leases are subject to grazing management plans to ensure that priority resource management goals are met. Approximately 7,700 acres of OSP land is in Williamson Act contracts. These contracts are within 21 OSPs (Midpen, 2019c). A map of the conservation grazing areas is shown in Figure 2-5. Small agricultural areas are located within some Midpen OSPs as shown in Table 2-2.

Table 2-2 Agricultural Uses on Midpen Lands

Managed Land (Property)	Size (Acres)	Agricultural Use/Activity
Purisima Creek Redwoods OSP (Lobitos Ridge)	6.7	Two crop fields; flowers and vegetables
Miramontes OSP (Madonna Creek Ranch)	27	Dry hay farming

Managed Land (Property)	Size (Acres)	Agricultural Use/Activity
Miramontes OSP (Madonna Creek Ranch)	47.9	Irrigated area for pumpkins, other crops, and Christmas tree farm
Skyline Ridge and Monte Bello OSPs	72.4	Christmas tree farm and chestnut orchard
Saratoga Gap OSP	4.7	Historic fruit orchard
Picchetti and Monte Bello OSPs	4.3	Winery complex
Rancho San Antonio OSP (Deer Hollow Farm)	10	Classes and camps for thousands of schoolchildren covering various themes: farming, edible/native gardening, native peoples, and local history

#### 2.2.2 Forested Lands

Midpen lands encompass approximately 30,000 acres of forest and woodland habitat, including roughly 11,500 acres of redwood and Douglas fir associated coniferous forest and 18,500 acres of other hardwood forest and woodlands. In the past, the redwood and Douglas fir forests of the Santa Cruz Mountains were the center of intense commercial logging activities; however, there are no ongoing commercial timber harvesting activities on Midpen lands today, except for the active Christmas tree farm (approximately 50 acres) at Skyline Ridge OSP. An important goal for Midpen is the preservation and protection of forests and woodlands by promoting late seral conditions on its OSPs.

#### 2.2.3 Natural Resources

# **Habitats and Biological Resources**

The rich biodiversity on Midpen lands provides vital ecological services (e.g., clean air, clean water, groundwater replenishment), biological resources (e.g., protection of ecological biodiversity), and human health benefits (e.g., physical, social, emotional, psychological health benefits). Midpen lands protect a variety of habitats that support diverse plant and animal species. Midpen lands straddle the eastern and western flanks of the Santa Cruz Mountains and include a diverse mix of oak woodland, grassland, chaparral, coastal scrub, and both evergreen and coniferous forests (Figure 2-6). The eastern portion of Midpen's boundary contains tidal salt marshes adjacent to urban areas on the San Francisco Peninsula. The westernmost portion of Midpen lands is dominated by coastal vegetation communities near areas of low densities. On Midpen lands to the north and south, hardwood and chaparral vegetation communities are found at generally lower elevations with conifer forests and grasslands typically at higher elevations.

Biological resources of special significance or importance are described briefly in Table 2-3. The table identifies species and habitats currently known to occur or listed as sensitive by resource agencies. The numbers and statuses of species may change over the life of this Program, and sensitive species may be present outside of mapped areas.

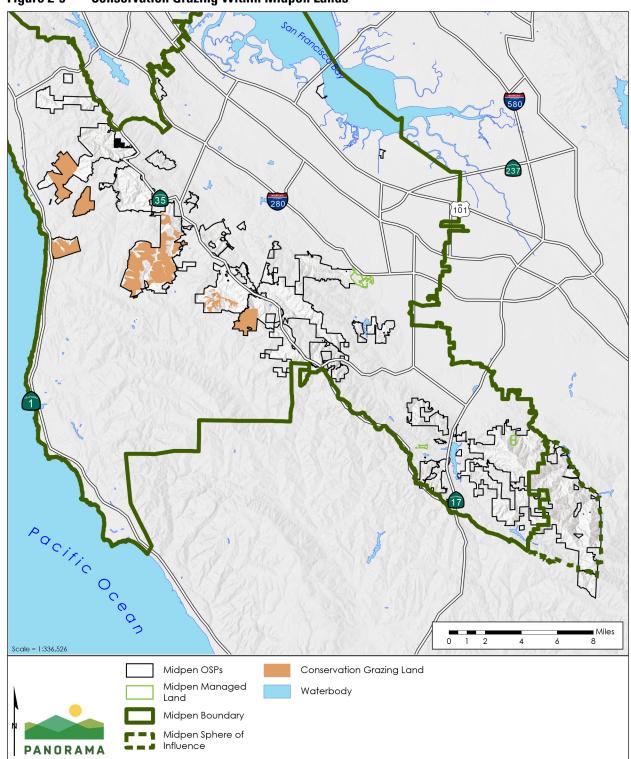


Figure 2-5 Conservation Grazing Within Midpen Lands

Source: (USGS, 2013; USGS, 2016; Tele Atlas North America, Inc., 2018; Midpen, 2020b; Midpen, 2019c)

### **Geology and Soils**

In general, Midpen lands consist of a diverse set of dynamic geological resources characterized by wide variations in elevation (from at sea level to more than 3,400 feet in elevation), variety of aspects and slopes (west-facing, east-facing), earthquake faults, pressure ridges, sag ponds, landslides, high variation of soil types and soil formations, and attractive but fragile rock formations. Midpen lands are located in seismically active areas that could experience significant ground shaking or result in fault rupture, seismic-related ground movement, and/or land sliding.

## Hydrology

Midpen lands contain a variety of water resources that include freshwater, estuarine/brackish, and marine habitats. Surface water bodies include reservoirs, ponds, seasonal wetlands, and ephemeral and perennial streams. Groundwater resources within Midpen lands include springs, seeps, and underground aquifers. Salt marshes occur along the edge of San Francisco Bay. Drainages range from ephemeral and intermittent to perennial streams. Runoff from the peninsula flows to the Pacific Ocean to the west and the San Francisco Bay and estuaries to the east.

Midpen OSPs are located within 22 major watersheds extending from the Pacific Ocean in San Mateo County to the bay lands in San Mateo and Santa Clara counties. Many of the OSPs are located within the headwaters or uppermost sections of these watersheds.

Rainfall occurs mostly between November and April with varying seasonal rainfall totals. The greatest rainfall quantities occur along the west facing slopes near the summit of the mountain range where totals can typically reach 40 to 50 inches per year, however, averages around 20 to 30 inches per year are more typical. In the Santa Cruz Mountains, fog accounts for approximately 10 to 20 inches of this precipitation, much of which is delivered in the dry summer months. Many smaller creeks and streams are intermittent, reflecting this seasonal distribution of rainfall. Winter flows are higher, especially during and immediately following storms.

#### 2.2.4 Cultural Resources

The San Francisco Peninsula has a rich and diverse history, including settlement by Native American groups; the Spanish (1776-1821) and Mexican Republican (1821-1848) colonization of the region; the annexation of California by the United States in 1848; and subsequent industrial, agricultural, and residential development. Evidence of these periods remain on Midpen lands, including Native American village sites and bedrock mortars, barns and other ranching features, orchards, wineries, historic homes, sawmill sites, mines, historic roads and trails, and outdoor recreational sites.

This region was home to one of the largest Native American population centers on the continent, with 70 diverse, healthy, economically flourishing tribal units. The Ohlone were the primary Native American people that occupied what is now Midpen lands.

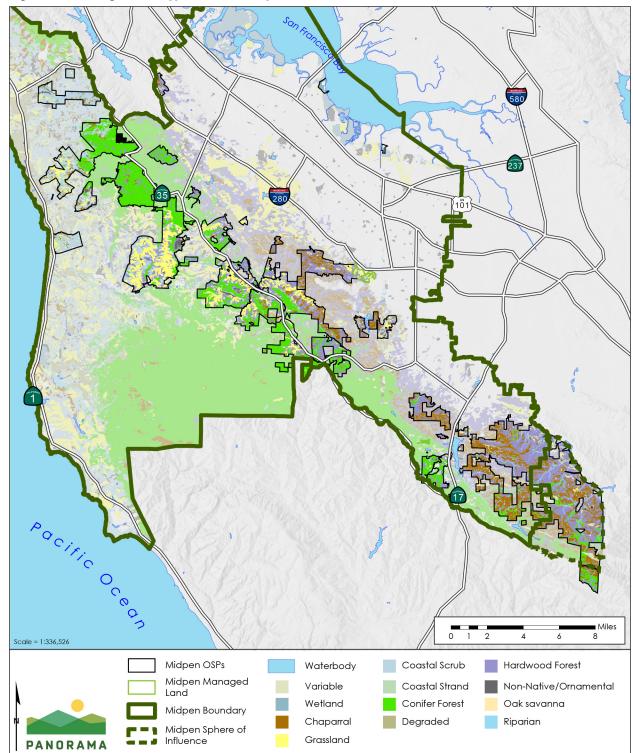


Figure 2-6 Vegetation Types Within Midpen Lands

Source: (USGS, 2013; USGS, 2016; Tele Atlas North America, Inc., 2018; Midpen, 2018b; Midpen, 2019c)

Table 2-3 Types of Biological Resources that Occur or May Occur on Midpen Lands

Resource	Description
Sensitive Natural Communities	Most natural communities within Midpen lands are considered sensitive, with a few exceptions such as non-native annual grasslands. Sensitive natural communities within Midpen lands include, but are not limited to redwood forests, California buckeye groves, oal woodlands, bigleaf maple forests, black oak forests, northern maritime chaparral, northern interior cypress forest, California bay forests, riparian woodlands, and wetlands. Serpentine grassland is a highly sensitive natural community that is not mapped in the study area because of the scale of the mapping unit but is present in small patches.
Critical Habitat	Critical habitat is a U.S. Fish and Wildlife Service (USFWS)-designated geographic area that is considered essential for the conservation of a federally threatened or endangered species that may require special management and protection. Critical habitat may include an area that is not currently occupied by the species, but that will be needed for its recovery. A critical habitat designation only applies to activities performed by Federal agencies or that involve a Federal permit, license, or funding, and that are likely to destroy or adversely modify the area of critical habitat. Critical habitat has only been designated for 704 of the more than 1,500 listed species. Critical habitat within Midpen lands has been designated for numerous species, including Franciscan manzanita (USFWS, 2013a), steelhead (USFWS, 2005a), tidewater goby (USFWS, 2013b), California red-legged frog (USFWS, 2010), bay checkerspot butterfly (USFWS, 2008), western snowy plover ( <i>Charadrius alexandrines nivosus</i> ) (USFWS, 2012), and marbled murrelet ( <i>Brachyramphus marmoratus</i> ) (USFWS, 2011). Figure 2-7 shows the critical habitat areas.
Special-Status Species	<ul> <li>Designated (rare, threatened, or endangered) and candidate species for listing by the California Department of Fish and Wildlife (CDFW).</li> <li>Designated (threatened or endangered) and candidate species for listing by USFWS.</li> <li>Species considered to be rare or endangered under the conditions of Section 15380 or the California Environmental Quality Act Guidelines, such as those identified on lists 1A, 1B, and 2 in the 2001 Inventory of Rare and Endangered Plants of California by the California Native Plant Society (CNPS).</li> <li>And possibly other species which are considered sensitive or of special concern due to limited distribution or lack of adequate information to permit listing or rejection for state or federal status, such as those included on list 3 in the CNPS Inventory or identified as a "California Special Concern" (CSC) species by the CDFW. Species designated as CSC have no legal protective status under the California Endangered Species Act but are of concern to the CDFW.</li> <li>Included in this are 11 plant and 16 animal species that are state and/or federally listed as threatened or endangered.</li> </ul>
Special-Status Plants	45 special-status plant species have the potential to be found within Midpen land. Species include but are not limited to:  • Santa Clara Valley dudleya  • Franciscan onion  • Bent-flowered fiddleneck  • Robust spineflower  • Western leatherwood  • Santa Cruz cypress

Resource	Description
Special-Status Invertebrates	Two special-status invertebrates:  Bay checkerspot butterfly  Monarch butterfly
Special-Status Fish	Two special-status fish:  Central California coast steelhead Central California coast coho salmon
Special-Status Amphibians and Reptiles	Nine special-status amphibians:  California giant salamander Santa Cruz black salamander California red-legged frog Foothill yellow-legged frog California tiger salamander Western pond turtle San Francisco garter snake Red bellied newt Coast horned lizard
Special-Status Birds	32 special-status birds have the potential to be found within Midpen land. Species include but are not limited to:  • golden eagle • long-eared owl • Vaux's swift • Purple martin • California yellow warbler • Marbled murrelet
Special-Status Mammals	Ten special-status mammals, including six bat species:  Townsend's big-eared bat  Western red bat  Fringed myotis  Hoary bat  Long-eared myotis  Pallid bat  Salt marsh harvest mouse  San Francisco dusky-footed woodrat  Santa Cruz kangaroo rat  American Badger

Source: (Midpen, 2014)

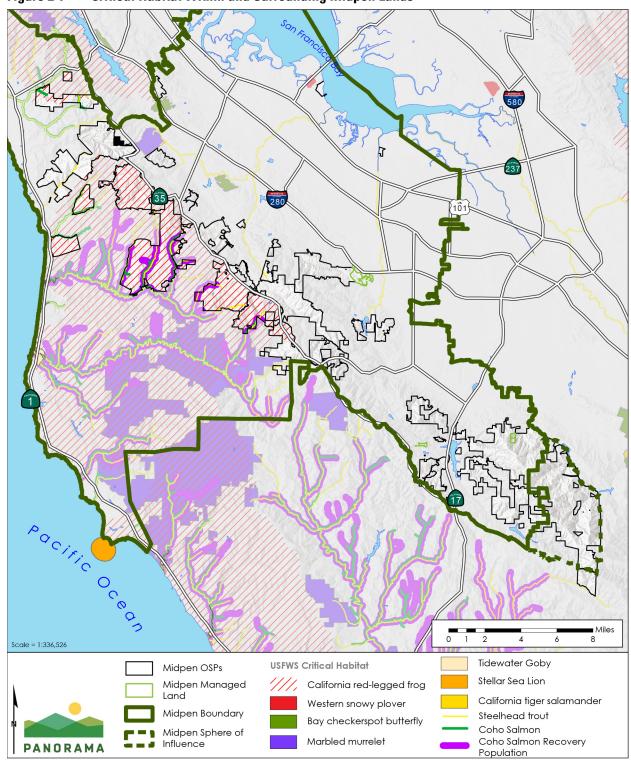


Figure 2-7 Critical Habitat Within and Surrounding Midpen Lands

Source: (USGS, 2013; USGS, 2016; Tele Atlas North America, Inc., 2018; Midpen, 2019c; USFWS, 2019; NMFS, 2005)

# 2.3 Past and Present Fire and Fuel Management

# 2.3.1 History of Wildland Fire

Prior to European contact, Native American tribes actively managed vegetation within their communities and surrounding areas using fire. These fires were lit intentionally at various times of the year to enhance vegetation growth, facilitate food collection, and improve forage for animals they hunted.

In addition, Native American tribes did not actively suppress natural lightning ignitions at a landscape scale, which resulted in fires burning for days, weeks, and even months, shaping the patterns of vegetation cover and composition over the centuries (Anderson, 2013). A detailed fire history study was conducted in the Santa Cruz Mountains, San Mateo County, Huddart Park, and McGarvey Gulch. These studies found that fires burned redwood forests every 12 years, on average. Since 1962, there have been approximately 10 fires on lands that are now owned by Midpen. The vast majority (10,800 acres) of acreage burned by these fires occurred when lands in the area of Sierra Azul OSP were held in private ownership, including the 1961 Austrian Gulch Fire (5,200 acres), 1985 Lexington Fire (4,961 acres), and 2009 and 2016 Loma Fires (530 acres between 2009 and 2016). Aside from these fires, and limited prescribed burning up until 2009, the vast majority of Midpen lands have not burned within the last 30 years.

# 2.3.2 Fire Suppression and Hazard

Fire suppression has been implemented by federal and state agencies throughout California for more than a century, significantly altering the fire regime. This policy of fire suppression has reduced biodiversity on lands that Midpen now owns or manages and has facilitated the spread of invasive plant species into grasslands and other plant communities.

Many plant communities in the area are adapted to cyclical fires. As of 2014, an estimated 8,419 acres of fire-dependent communities have been cataloged within the OSPs. Fire suppression allows other plants to outcompete and eventually eliminate fire-adapted and early successional species, including rare species such as Kings mountain manzanita (*Arctostaphylos regismontana*), and can ultimately result in conversion of vegetation communities such as chaparral or grasslands to forest. Additional information on fire suppression history is in Chapter 4: Vegetation Management Plan of this Program. Forests now have a much higher density of trees, particularly Douglas-fir, that are more susceptible to fire. In addition, due to fire exclusion, fuels have accumulated within oak woodland, chamise, and grassland dominated vegetation types. Coupled with extensive development in the WUI, local fire risk is a critical regional issue that directly affects nearby communities through potential fire damage and evacuation orders and indirectly affects larger geographic regions through smoke and significant and prolonged air quality impacts. Increased development in the WUI also increases the potential for anthropogenic ignition sources.

### 2.3.3 Current Fire Threats and Risks

### **Invasive Species**

Invasive species are plant species that invade and dominate sufficiently large areas causing a reduction in biodiversity. They proliferate in the absence of natural control and interfere with the natural processes that would otherwise occur on wildlands. Once established, invasive species can become difficult to manage and can eliminate or outcompete rare, sensitive, or otherwise important native species that are important to maintain a species-rich assemblage, habitat, host plants, food, and cover for wildlife. Although the vast majority of invasive species are non-native, a disruption in disturbance regimes (e.g., natural fire) or influx of outside influences (e.g., nitrogen deposition from anthropogenic activities such as fossil fuel combustion) can cause native species to act invasive.

Invasive plants are implicated in many natural resource and conservation problems and are considered by most land managers to be a threat to natural resource management goals. Some invasive plants can alter ecosystem processes, such as reducing or changing seasonal food sources for wildlife, hydrological patterns, fire regimes, soil chemistry, or the genetic integrity or other species. The San Mateo County Weed Management Area and the Santa Clara County Weed Management Area set regional priorities for eradication of invasive plants in the San Francisco Bay Area, particularly those for which early action could substantially reduce future risk of ecological impacts.

In 2014, invasive species were mapped as dominating approximately 860 acres (<2 percent) within Midpen OSPs. Not all land within OSPs has been mapped. Prominent non-native, invasive species found on the OSPs include French broom, jubata grass, and blue gum eucalyptus, which have the to increase the intensity and severity of wildland fires.

Although many species of non-native annual grasses are ubiquitous throughout California, and not typically considered noxious, management of these grasses are an important part of land stewardship to reduce fuels and maintain or enhance grassland habitat. Without conservation grazing or other forms of vegetation management, non-native annual grass biomass can build up over time as thatch. Thatch increases the flammable fuels in grassland habitats and helps carry fire. If left unmanaged, thatch buildup can negatively impact and suppress native seed germination, prevent water infiltration into the soil, and alter soil dynamics.

#### **Forest Disease**

Sudden Oak Death (SOD) is a prevalent disease within forested lands. SOD has killed over one million native oak and tanoak trees and infests many other forest species in one Oregon and 15 coastal California counties. Hundreds of dead tanoak trees and other symptoms of the SOD pathogen, *Phytophthora ramorum*, are commonly seen on Midpen OSPs, contributing to greater fuel loads. No cure is currently available for SOD, and as with other extensive forest diseases, a strategy may take decades to develop. In 2006, Midpen began its efforts to address SOD impacts by adopting a ten-year SOD plan to map oak trees on Midpen OSPs that are potentially resistant to the SOD pathogen, treat a selected number of specimen oak trees, and establish collaborative

funding for SOD research to help guide land management decisions (Midpen, 2014a). The plan also included a collaborative study of impacts on wildland ecology and recreation, and development of a restoration strategy for heavily infested forests. The disease threatens to degrade the more than 47,000 acres of hardwood forest in the region, of which 18,000 acres occur in Midpen OSPs (Figure 2-8). Since 2000, SOD has spread from what is believed to be its initial core in the Long Ridge, Saratoga Gap, and Skyline Ridge OSPs in a northerly and easterly direction primarily as a result of weather conditions.

To date, Midpen employees continue to conduct research, monitor, and manage SOD in accordance with the IPMP. This work occurs on Rancho San Antonio, Monte Bello, El Corte de Madera Creek, Los Trancos, Russian Ridge, Skyline Ridge, Long Ridge and Saratoga Gap OSPs. Because the long-term effects of the disease on California's forests are unknown, Midpen is also currently working with the California Oak Mortality Task Force to further study and monitor the impacts of the disease. Research into SOD treatment options was conducted at Rancho San Antonio, El Corte de Madera, and Los Trancos OSPs. The research evaluated the success of three scenarios: removal of California bay; application of fungicide; and not conducting any treatment. Ongoing treatment is continuing at El Corte de Madera OSP, with one more fungicide application projected to occur in 2020. Midpen educates the public and staff on SOD prevention techniques in addition to supporting outreach and monitoring efforts conducted by University of California Berkeley and Oregon State University.

#### **Fuel Load**

The historic fire regime in the area greatly reduced much of the fuel load on the ground and significantly reduced the severity of fires within these fire-managed landscapes. From 1860 through the early 1920's, unprecedented alterations took place within the forests of the Santa Cruz Mountains. The ancient "old growth" forests were primarily harvested for local home construction, removing the largest, most fire-resistant trees from the forested landscape. The forest that has grown back typically consists of a much higher density of trees, particularly Douglas-fir, that are more susceptible to fire. In addition, due to fire exclusion, fuels have accumulated within oak woodland, chamise, and grassland dominated vegetation types. Coupled with extensive development in the WUI, local fire risk is a critical regional issue.

#### Climate Change

California is experiencing climate changes with more frequent heat waves, higher temperatures, and successive periods of drought. Temperatures in California are projected to increase 5.6 to 8.8 degrees by 2100. Conversely, the snowpack is anticipated to decline to less than half the historical average. Changes in precipitation patterns and increased temperatures are expected to alter the distribution and character of natural vegetation and associated moisture content of plants and soils. These changes are expected to lead to increased frequency and intensity of large wildland fires and greater fire risk if fuel management activities are not expanded across the state (CNRA, 2018).

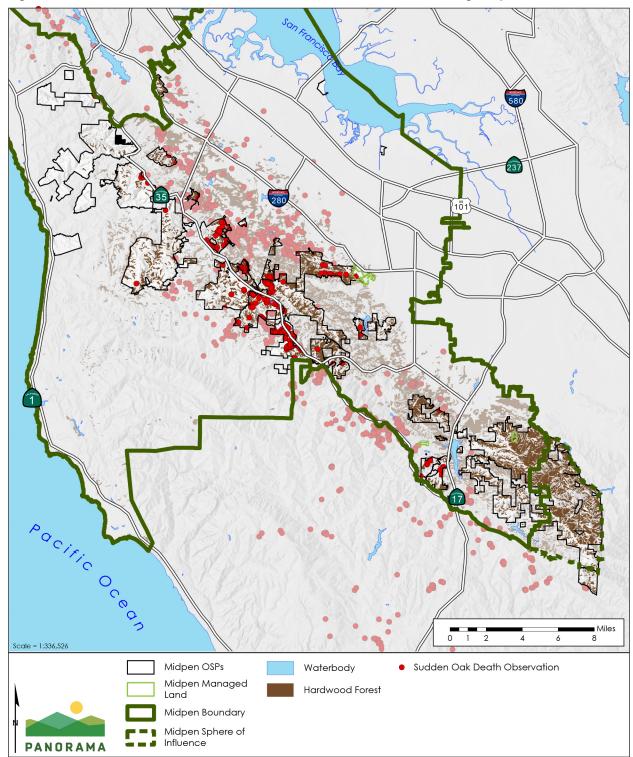


Figure 2-8 Sudden Oak Death Observations in 2016 Within and Surrounding Midpen Lands

Source: (USGS, 2013; USGS, 2016; Tele Atlas North America, Inc., 2018; Midpen, 2018b; Midpen, 2019c; UC Berkeley, 2016)

# 3 Wildland Fire Resiliency Program Policies

# 3.1 Overview

Midpen's Board-adopted Resource Management Policies (RM Policies) guide the ongoing management of the natural resources on Midpen lands. Resources covered under the policies include plants, animals, water, soil, terrain, geologic formations, and historic, scenic, and cultural features. The purpose of the RM Policies is to:

- Set the framework for Midpen's resource management program;
- Provide general guidance for issue-specific and site-specific planning;
- Provide staff and the Board a tool for informed, consistent, and effective resource management decision making;
- Inform the public of the purpose and intent of Midpen's resource management program; and
- Provide a basis for evaluating Midpen's progress in reaching its resource management objectives.

The Program is intended to be consistent and supported by the RM Policies, including Chapter XV on wildlife fire management. This policy was recently reviewed and analyzed by Midpen's consultants, Spatial Informatics Group (SIG) and Panorama Environmental, Inc. (Panorama). The consultants reviewed Midpen and other agency policies related to fire ecology, fire management, prescribed fire, suppression activities, vegetation management and ecosystem resiliency, and post-fire response. The resulting report (Appendix A) presents recommendations to update Midpen policies and actions that support the overarching objectives and goals of Midpen's Wildland Fire Resiliency Program.

The recommendations for the revised RM Policies were presented to Midpen's Planning and Natural Resource Committee, which recommended forwarding the revised RM Policies to the full Board for approval. The full text of the revised policies and implementation measures can be found in Section 4 of the Policy Analysis and Recommendations report, provided in Appendix A.

# 3.2 Summary of Policy Review and Recommendations

#### 3.2.1 Methods

The methodology for the policy review started with a compilation of existing Midpen policies, with a focus on policies related to wildland fire management, vegetation management, forest management, ecological succession, climate change, and scenic and aesthetic resources. The

#### **3 WILDLAND FIRE RESILIENCY PROGRAM POLICIES**

primary focus was on the Board-approved RM Policies, but other sources were also consulted for guidance or language related to vegetation management and fuels treatment. The following additional sources were similarly compiled and considered in this analysis:

- Bear Creek Redwoods Preserve Plan (adopted January 2017)
- Defensible Space (Fuel Reduction) Permit Program (adopted in April 2009)
- Good Neighbor Policy (adopted October 1988, last amended September 2007)
- Integrated Pest Management Program (adopted September 2014, last amended January 2019)
- La Honda Creek Open Space Preserve Master Plan (adopted August 2012)
- Regulations for Use of Midpeninsula Open Space District Lands (adopted July 1993, last amended February 2014)
- Service Plan for the San Mateo Coastal Annexation Area (adopted June 2003)

Surrounding jurisdictions and CAL FIRE have their own policies and practices related to wildland fire management. The policies of these agencies were similarly compiled. The following agencies' policies were included in this analysis:

- CAL FIRE
- San Mateo County
- Santa Clara County
- Santa Cruz County
- State of California Government
- Woodside Fire Protection District
- California Board of Forestry and Fire Protection

Fire safe councils are grassroots community-based organizations that share the objective of making California's communities less vulnerable to catastrophic wildland fire. Fire safe councils accomplish this objective through education programs and projects such as shaded fuelbreaks or firebreaks to protect area residents against an oncoming wildland fire and to provide firefighters with a place to fight the oncoming fire. The first fire safe councils started in the early 1990s, and there are now over 100 across the state. Local fire safe councils usually include representatives from:

- Fire agencies, including CAL FIRE, the U.S. Forest Service, the Bureau of Land Management, and/or local fire protection districts as appropriate
- Local governments, such as cities, counties, and special districts
- Other agencies, such as Resource Conservation Districts
- Public members
- Native American Tribes
- Businesses, especially insurance <u>companies</u>

All local fire safe councils are independent entities. Some are organized as non-profit 501(c)(3) corporations; others operate under a memorandum of understanding with a county, city, and/or local fire protection district; some have no formal structure at all. Fire Safe San Mateo County, Santa Clara County Fire Safe Council, and the South Skyline Fire Safe Council are the fire safe

#### **3 WILDLAND FIRE RESILIENCY PROGRAM POLICIES**

councils that operate in the Program area. All fire safe councils pursue public and private partnerships to enhance public education and expand fuel reduction. The fire safe councils do not operate under specific policies and regulations but, as entities, provide numerous resources for defensible space, homeowners' fire risk reduction, fire codes, fire crews, information on invasive species, shaded fuelbreaks, fire history, chipper programs, and more. CWPPs are also developed under local fire safe councils. The CWPP for San Mateo and Santa Cruz Counties was published in April 2018 and the Santa Clara County CWPP was published in August 2016. Midpen coordinates with the fire safe councils within Midpen boundaries. Midpen also participated in the development of both CWPPs and was a signatory to the Santa Clara County CWPP.

Neither the San Mateo County and Santa Cruz County nor the Santa Clara County CWPPs includes specific policies, but each summarizes goals and strategies of the entities and agencies within its coverage areas and provides overarching guidance on many aspects of fuel management and wildland fire preparedness that would be relevant to Midpen's Program. The considerations of the CWPPs were therefore included in this policy analysis.

# 3.2.2 Process for Making Recommendations

Recommendations for updates to the RM Policies were made by evaluating the objectives and general components of the Program against existing policies for consistency and compatibility. The policies of other jurisdictions were then evaluated to determine if they were already included in Midpen policies or if they provide important guidance that should be incorporated into the RM Policies for Board consideration. The CWPPs were also evaluated to ensure that existing policies encompass the important tenets of the Program.

# 3.3 Policy Revisions to Support the Program

The policy analysis revealed that the goals and components of Midpen's Wildland Fire Resiliency Program are generally supported by the RM Policies, however, the following updates to the RM Policies may be considered to better address wildland fire management and ecosystem resiliency. The specific text revisions are available in the Wildland Fire Resiliency Program Resource Management Policies Analysis and Recommendations report (Appendix A).

- Adding ecosystem resiliency to the Wildland Fire Management policies, including an objective to identify acceptable levels of environmental change that allows for establishment and maintenance of resiliency at the landscape level;
- Adding language to address post-fire restoration and response;
- Adding language regarding the indigenous use of fire and objectives to coordinate with tribes on prescribed burning practices and incorporate cultural practices of prescribed fire for desired outcomes;
- Adding language that defines and supports programmatic planning efforts to implement wildland fire resiliency activities and address regulatory barriers;

#### **3 WILDLAND FIRE RESILIENCY PROGRAM POLICIES**

- Adding language acknowledging the adopted CWPPs for San Mateo and Santa Cruz County and Santa Clara County and consideration of supporting the CWPPs implementation actions that are consistent with Midpen practices;
- Adding language that defines and describes the importance of adaptive management and decision-making flexibility to respond to ecological feedback;
- Adding an objective to identify the focus of non-fire fuel management actions versus prescribed fire actions;
- Adding an objective to adopt new emerging technology into management methods;
- Allowance for landscape visual changes for fuels management under Scenic and Aesthetic Resource policies; and
- Updates to the Climate Change policies that acknowledges the actions and related tradeoffs that should be considered to avoid large, catastrophic carbon emissions (and major ecological impacts) from large destructive fires, such as selective fuel clearance and controlled prescribed burns.