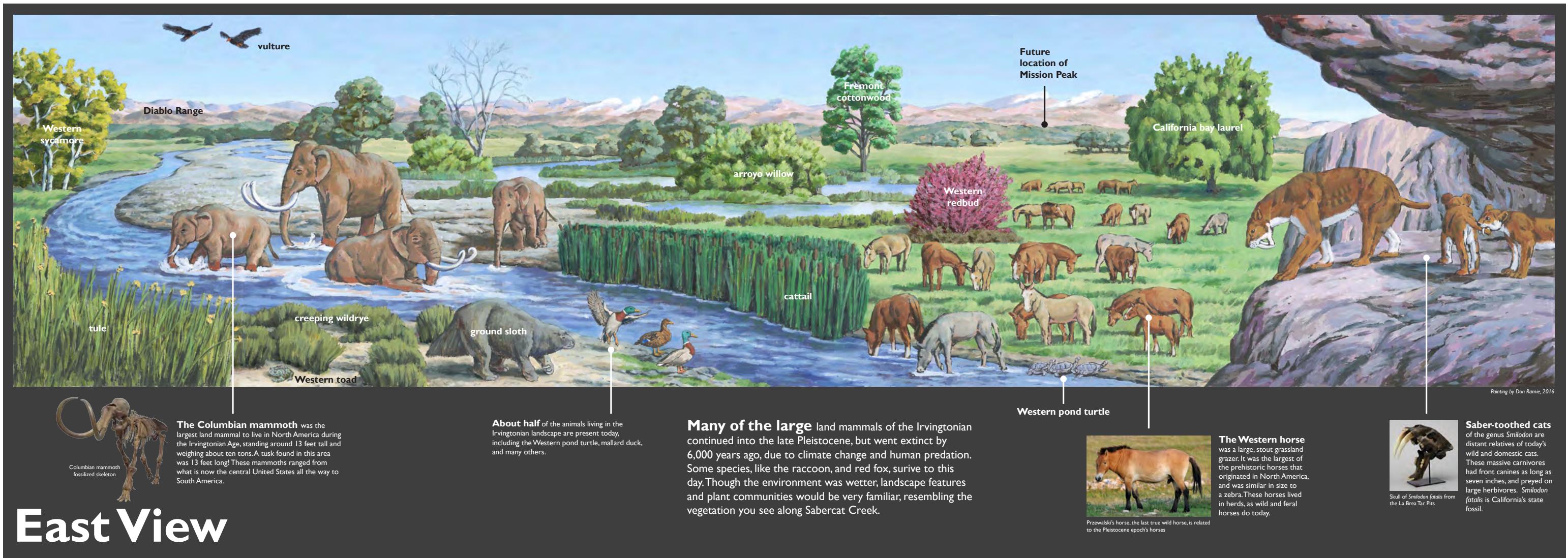


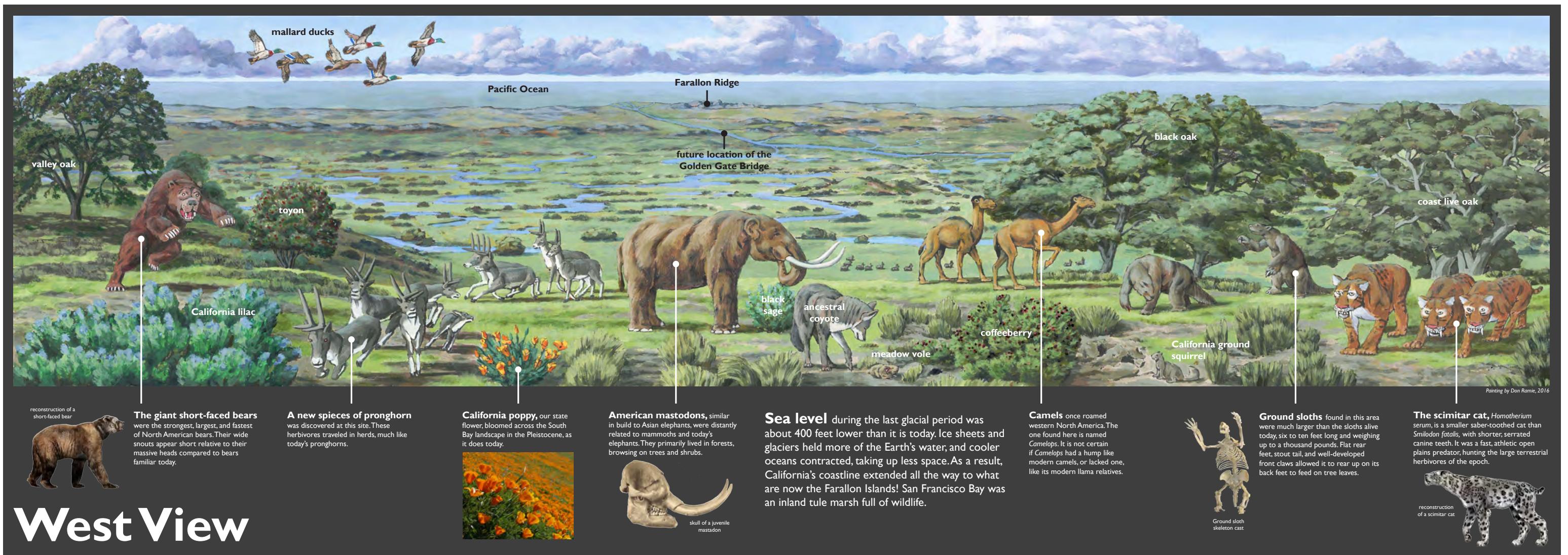
## Appendix 6.1a: East View

### Interpretive Signs 1a



# Appendix 6.1b: West View

## Interpretive Sign 1b

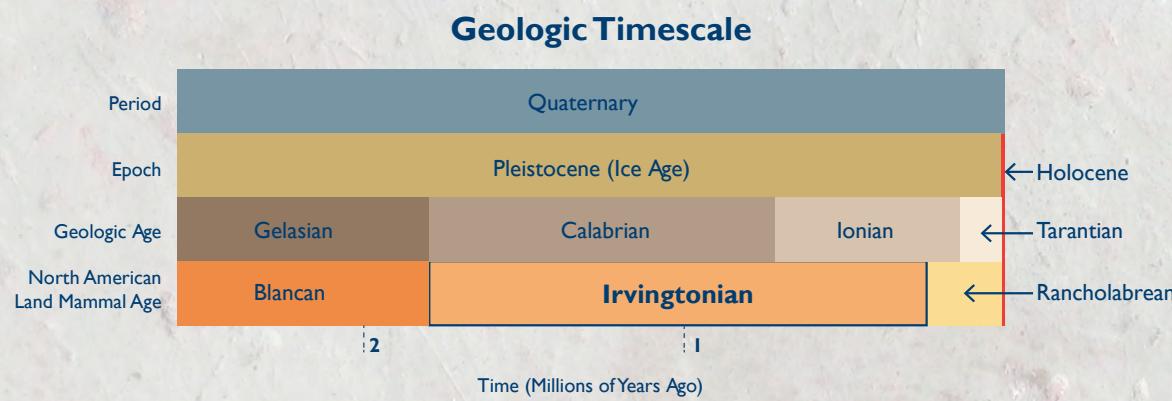


# Appendix 6.2: Land Mammals of the Irvingtonian Age

Interpretive Sign 2

# Land Mammals of the Irvingtonian Age

**Thousands of fossils**, mostly dating from 1,800,000 to 240,000 years ago, were excavated in what is now Sabercat Historical Park and nearby locations. Because of this remarkable discovery, that time period is described as the “Irvingtonian North American Land Mammal Age,” after Fremont’s Irvington District. Very few complete skeletons were found. The skeletons shown to the right are from other North American sites, but illustrate species that were found here.



**These familiar faces are Irvingtonian mammals, too!** Many animals survive nearly unchanged from their Ice Age ancestors, including ground squirrels, raccoons, opossums, and coyotes. Though it sounds like the distant past, on the geologic timescale the Irvingtonian Era is recent history--the dinosaurs had been extinct for 63 million years, and the continents were arranged the same as they are today.



California ground squirrel



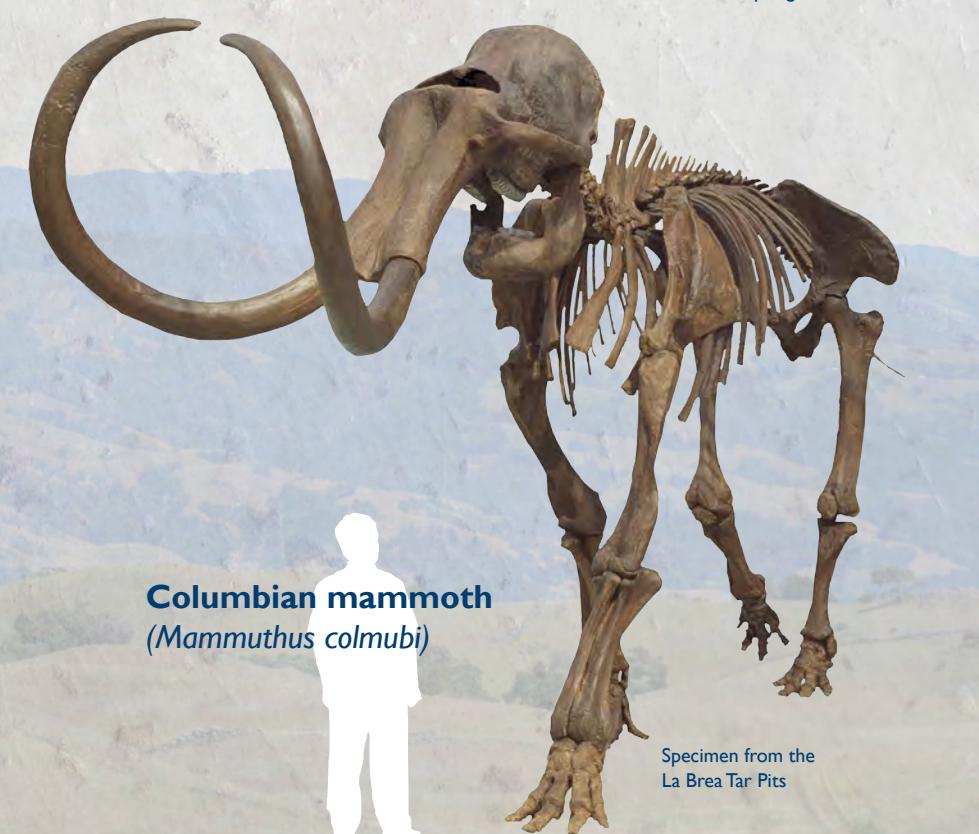
raccoon



opossum



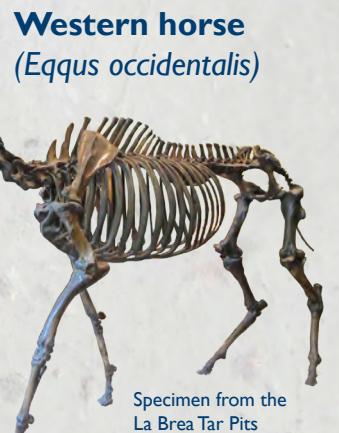
coyote



Columbian mammoth  
(*Mammuthus columbi*)



ground sloth  
(*Megalonyx spp.*)



Western horse  
(*Equus occidentalis*)

Specimen from the La Brea Tar Pits



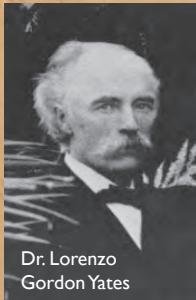
short-faced bear  
(*Arctodus simus*)

From The Mammoth Site of Hot Springs, SD, Inc.

## Appendix 6.3: In Search of Fossils

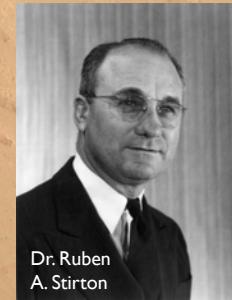
Interpretive Sign 3

# In Search of Fossils



Dr. Lorenzo  
Gordon Yates

**After a large earthquake** in 1868 on the Hayward Fault, Dr. Lorenzo Gordon Yates, a dentist, discovered fossils on what is now Osgood Road in the Irvington District. Many were identified as extinct Pleistocene horses, camelids, and mammoths. In 1871, he excavated a tusk and jaw of a mastodon that was the most complete jaw discovered in California at the time.



Dr. Ruben  
A. Stirton

**In 1936, a young paleontologist** from the University of California, Berkeley, Ruben A. Stirton, began excavations in the Irvington gravel pits after a fossilized horse jaw was found there. He and his colleagues realized that the site probably contained early Pleistocene fossils, and found an antelope new to science. Later in his career, Stirton mentored Donald E. Savage. Savage went on to define the Irvingtonian North American Land Mammal Age in 1951.



The "Boy Paleontologists" excavating fossils at Bell Quarry, led by Wesley Gordon (center).

**The "Boy Paleontologists,"** a group of boys from Hayward, excavated fossils in the Bell Quarry from 1943 to 1959. Led by Wesley Gordon, the boys unearthed about 150,000 fossils from 58 different species. The



The "Boy Paleontologists" excavating fossils at Bell Quarry.

contribution of the Boy Paleontologists marked the beginning of an ongoing relationship between the local community and researchers that continues to this day, and helped preserve Sabercat Canyon as a park.

# Appendix 6.4: Under the Canopy

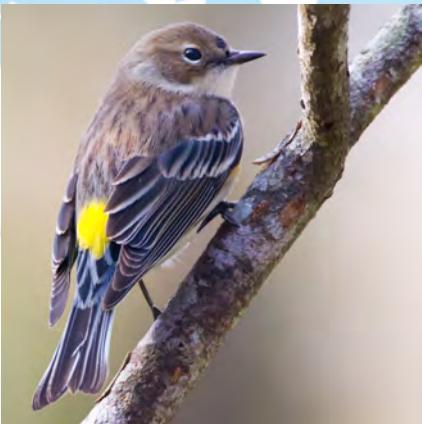
Interpretive Sign 4

## Under the Canopy



**Amphibians, reptiles and fishes,** including tree frogs, rely on shade and habitat created by oaks, buckeyes, willows, and other riparian trees. Tree frogs sometimes eat insects and spiders as large as they are. The toe pads of these remarkable animals allow them to climb vertical surfaces in order to ambush their prey.

**Migratory birds** depend on the broad canopies of coast live oaks for shelter, including the versatile yellow-rumped warbler. These birds spend winter in streamside woodlands and other somewhat open areas such as this all the way to Central America.



**Grey foxes** and other mammals rely on urban forests and grasslands for hunting and raising their young. These omnivorous animals are active at dawn, dusk and at night, and they are the only fox that can climb trees!

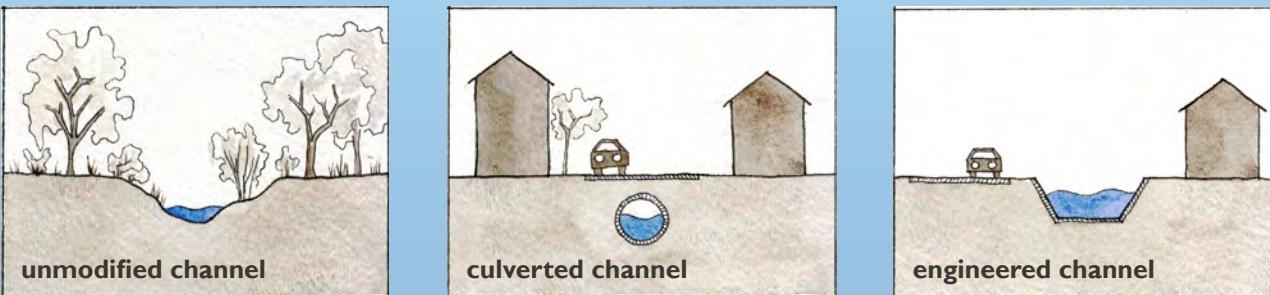
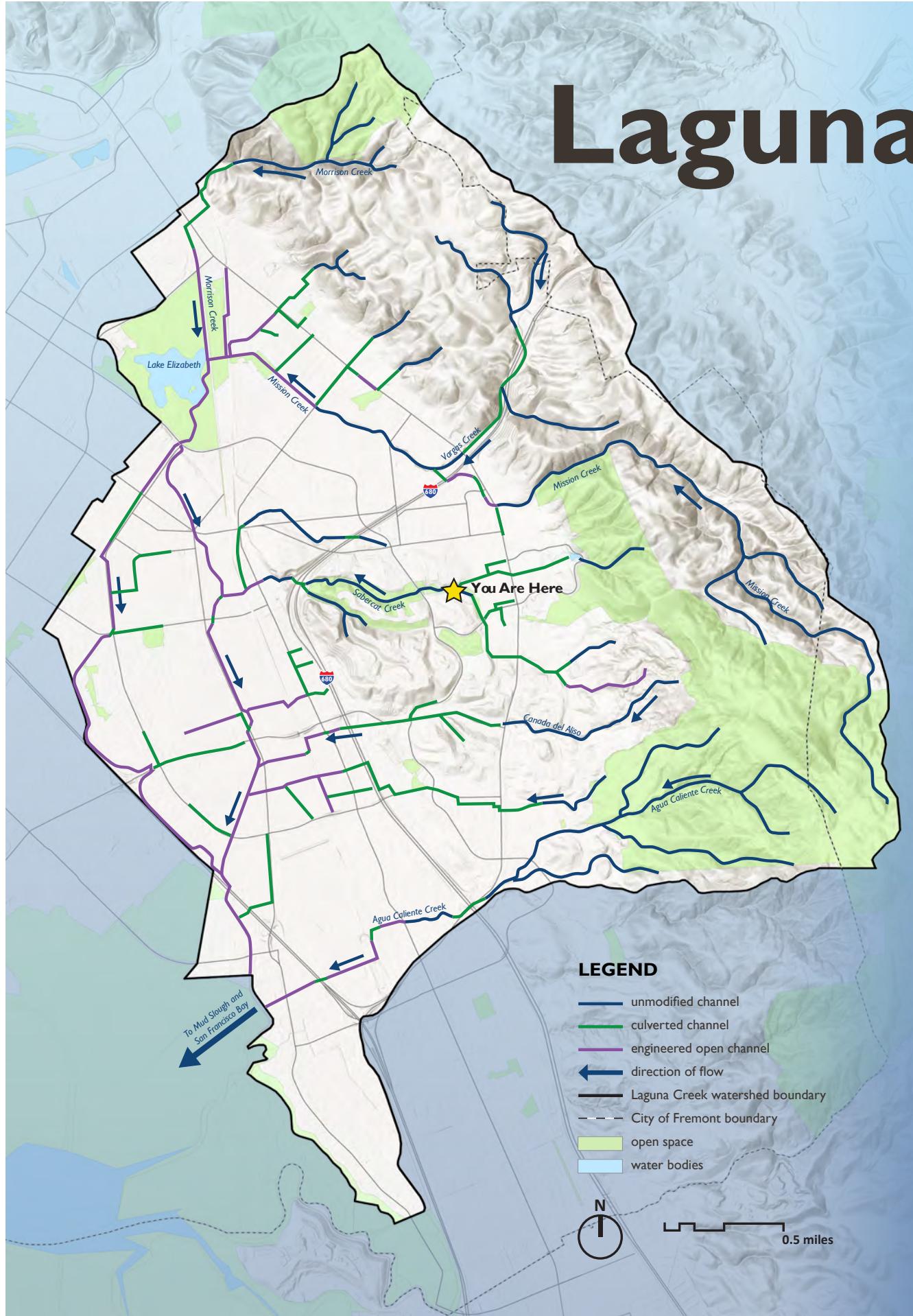


**This coast live oak** stands 60 feet tall and stretches 90 feet wide. Because of its age, size and beauty, the City of Fremont designated it as a Landmark Tree in 2012, joining other exceptional trees throughout the City.

# Appendix 6.5: Laguna Creek Watershed

Interpretive Sign 5

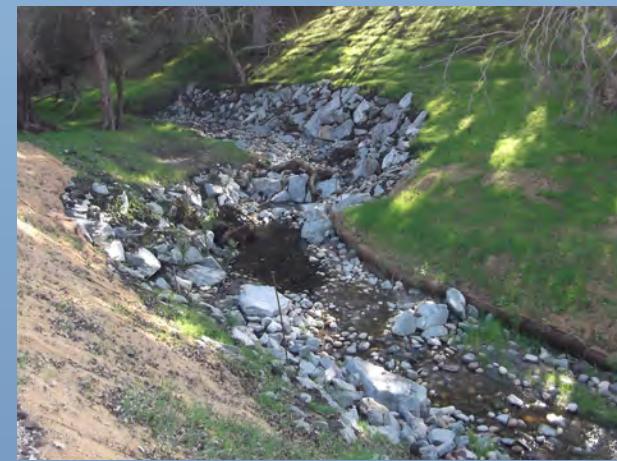
## Laguna Creek Watershed



**Sabercat Creek** is one of several streams within the 25-square-mile Laguna Creek watershed that drain the foothills of the Diablo Range. As these creeks flow across flatter, lower ground in urban Fremont, they travel from natural, open channels to underground culverts and concrete lined engineered channels. Finally, they flow to Mud Slough on the way to San Francisco Bay.



Sabercat Creek showing significant bank erosion and undercutting, reducing habitat value.



Sabercat Creek, immediately after channel stabilization and replanting, providing better habitat and reduced hazards. New plantings grow over time.

**Urbanization** and other landscape changes have taken their toll on the health of Sabercat Creek, causing erosion and bank failure that is bad for the creek and wildlife. Ongoing restoration continues to improve channel stability, water quality and habitat.

# Appendix 6.6: Plants of Sabercat

Interpretive Sign 6

# Plants of Sabercat



## poison oak

*Toxicodendron diversilobium*

Poison oak has green or red glossy, lobed leaves in groups of three. It can look like a shrub, groundcover, or vine. Avoid touching poison oak! All parts of this plant, including bare twigs, contain an oil that can cause mild to severe itchy blisters. The oils can also be transported on dogs, tools and clothes.

## coast live oak

*Quercus agrifolia*

This evergreen oak thrives in California's coastal woodlands and hills from Mendocino County south to Baja California. These trees can live for 250 years, forming characteristic picturesque branching as they age.

## toyon

*Heteromeles arbutifolia*

This evergreen shrub is native to the California coast and Sierra foothills. In the spring, large clumps of white flowers bloom, followed by red berries in the summer.

## California buckeye

*Aesculus californica*

California buckeye thrives near streams and moist forests. It has spikes of attractive white flowers in spring. Large, drooping seeds that stay on its branches long after it has lost its leaves later in the summer.

## blue elderberry

*Sambucus nigra*

Blue elderberry is a large shrub or small tree with arching branches, and abundant clusters of white flowers followed by blue berries. The berries are edible once cooked, and can be made into jam or wine. Elderberries are an important source of nectar and food for pollinators and wildlife.

## common snowberry

*Symphoricarpos albus*

Snowberry is a deciduous shrub that thrives in the forest edge and understory, providing cover and food for many animals. Native Americans used the bright white berries to make soap. Do not eat the berries--they are poisonous!

## California blackberry

*Rubus ursinus*

This trailing vine is a wild plant related to blackberries cultivated for food. California blackberry's small fruits are edible and delicious, enjoyed by humans and animals alike. It has leaflets in groups of three, and small, almost soft prickles. Don't confuse it with Himalayan blackberry, a common nonnative plant with large, robust canes, sharp, large prickles and leaflets in groups of five.

## arroyo willow

*Salix lasiolepis*

Arroyo willows grow at the margins of stream banks and wetlands, and often have many stems. Their aggressive roots help hold soil and reduce erosion, and the thick vegetation provides habitat for animals. In the spring, this plant has soft, fuzzy flowers.

# Gathering and Cooking Acorns

**Alson and Tuibun Ohlones** called the place now known as the Fremont Plain home for countless generations. They managed the landscape in a way that increased the numbers and health of the plants and animals on which they relied for food, shelter, clothes, ceremonial regalia, containers, tools, games, toys, and more. Spanish, Mexican, and American settlement in the area, beginning in 1797 at the village of Oroysom (now Mission San Jose), brought tremendous disruption, suffering, and change to Ohlones. Despite this history, today's Ohlones are proud to keep their cultures and cultural values alive while living as modern Americans. They advocate for the preservation of ancestral cultural and sacred sites, as well as the environment.



by Beverly Ortiz, East Bay Regional Parks District



**Groves of oak trees**, like the one you are standing in, provided abundant harvests. Before gathering acorns, Ohlones conducted ceremonies and offered prayers of thanks.



Mature, healthy acorns are cracked open → Winnowing in a Western Mono-style basket to remove the red skin → Pounding acorns with a mortar and pestle to turn them into flour → Sifting to separate the fine from the coarse flour → Leaching flour to remove tannic acids, resulting in a light, nutty flavor → River-rounded volcanic rocks are heated in a fire, rinsed of ash, and lowered into flour and water mixture → The rocks are slowly stirred in a pre-soaked cooking basket that doesn't burn

**Making acorn soup:** Ramona Garibay (Jalquin/Saclan Ohlone/Bay Miwok) (above) demonstrates how to make acorn soup the old way, using stone tools and baskets.

## Appendix 6.8: “Winery Road”

Interpretive Sign 8

# “Winery Road”

**The first vineyards** in the East Bay were planted at Mission San Jose in the late 18th century, tended by Spanish missionaries and Native Americans. Around 1850, after the Mission was secularized, landowners expanded vineyards and began commercial winery operations. By 1893, Washington Township boasted more than 50 wineries and vineyards.

Hills and valleys in all directions were covered with vineyards, and Washington Boulevard became known as “Winery Road.” One 1898 observer claimed that, “[t]here is no more important vineyard district in California, all things considered, than that which lies around the old Mission San Jose.”



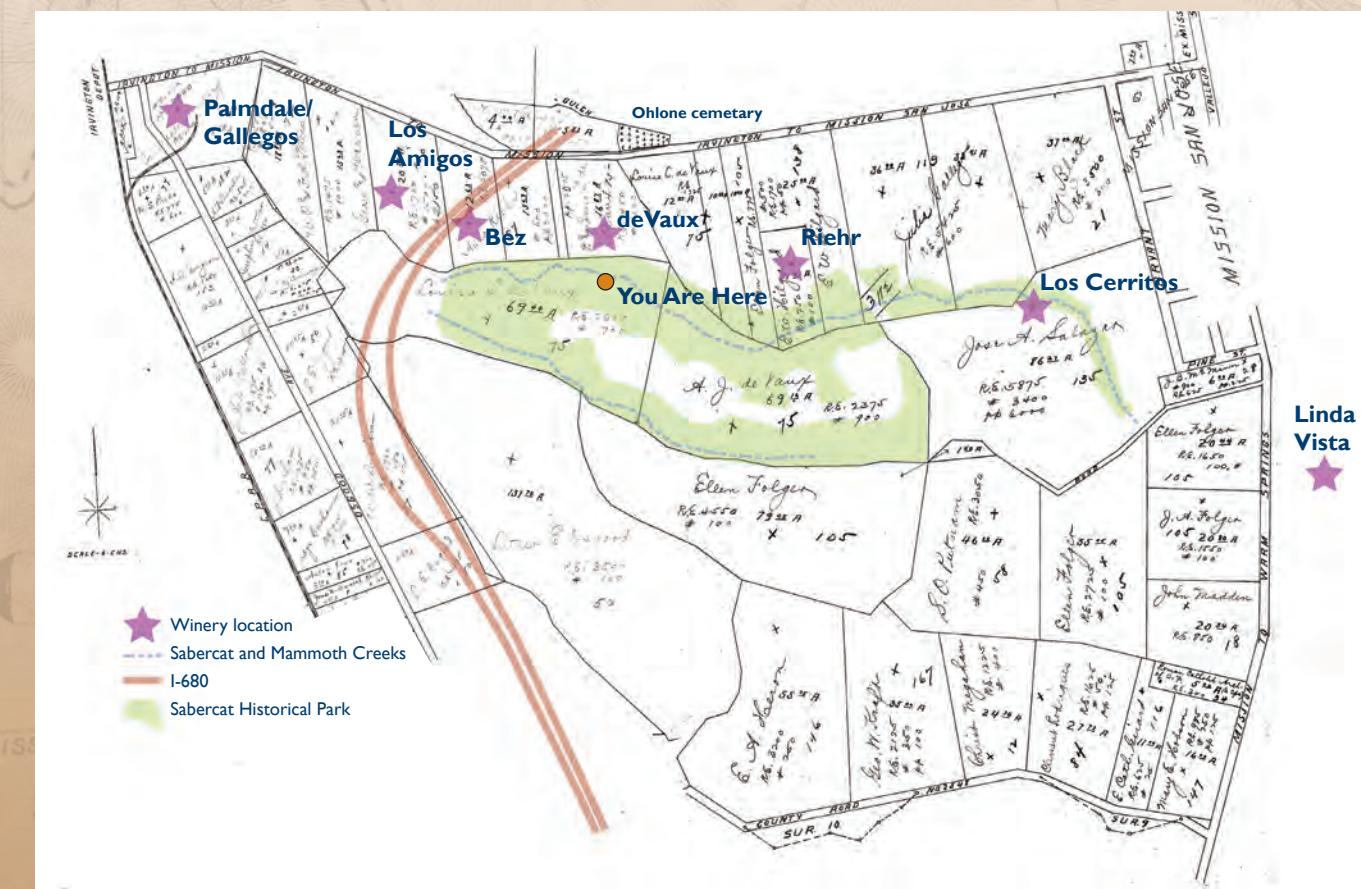
Off loading must (freshly squeezed wine grapes) at the third floor level, rear of the Gallegos winery, located at what is now Washington Blvd. and Osgood Rd. This large winery collapsed in the 1906 earthquake.



The 1888 Los Amigos winery was operated by Mr. and Mrs. Edward Werner and Edward Grau

**Early success** did not last. Already compromised by *Phylloxera* (an insect disease) and the earthquake of 1906, most of the wineries were shuttered for good by Prohibition. Orchards, vegetable farms and dairies replaced vineyards.

**The building foundation** in front of you is the ruin of Paul and Louise de Vaux’s wine storage building. The de Vaux vineyard was the fifth largest in Washington Township at the turn of the 19th century. Much of this property is now Sabercat Historical Park.



This Alameda County Assessor's map from 1902 shows the owners of winery and vineyard properties along Washington Blvd. Not drawn to scale. Approximate locations shown for I-680, Sabercat Historical Park and creeks, for orientation.



# Appendix 6.9: The Hirsch Dairy Barn

Interpretive Sign 9

# The Hirsch Dairy Barn



The dairy barn on the Hirsch property, likely built in the 1920s.

**When** Paul and Louise deVaux sold their vineyard and winery in 1918 (shortly before Prohibition went into effect), a large part of it was purchased by Otto Hirsch, a locally prominent businessman.

He leased the property to dairy farmers for over thirty years, and planted an apricot orchard. Farmers built a dairy barn and milk separator in this location in the 1920s. The barn stood here until 2013.



Otto Hirsch standing in his apricot orchard, on the same property as the dairy barn, just off Washington Blvd.



1946 aerial photograph of Washington Township (USGS). The fields with trees in a grid pattern are orchards, and the other fields were mostly pastures and produce farms.

**Dairies**, vegetable farms and orchards were abundant across Washington Township in the first half of the 20th century. There were nearly forty thriving dairies in the 1920s, including the one that stood here.



Milkers on the Cloverdale-Innes Dairy, 1927, now the Fremont Hub (left); Frank Inderbitzen Sr. and Jr. on their small dairy on Osgood Road, circa 1957, with cows and apricot trees (above). Both of these nearby dairies were similar to the Hirsch Dairy.

# Appendix 6.10: Exploring Regional Connections

DRAFT

Interpretive Sign 10

# Exploring Regional Connections



# Appendix 6.11:

## Upright Main Entry Sign

**Welcome to the fossils of Sabercat.**  
From nearly two million to 240 thousand years ago, Columbian mammoths, saber-toothed cats and other now extinct land mammals lived here, leaving behind a treasure trove of fossils.

**Local school children,** dubbed the "boy paleontologists," excavated some of the most remarkable fossils found here, from the 1930s to the 1960s.

**Sabercat Creek** flows year-round, from the foothills of the Diablo Range to San Francisco Bay, sustaining plants and animals, including migratory birds.

**Park Map**

**Key**

- Paved Trail
- Walking routes outside park
- Unimproved Park Land
- Stream Centerline
- Park Entry Point
- Restroom
- Parking

0' 250' N

**You Are Here** Paseo Padre Entrance

Via Orinda Entrance

Bell Quarry

Unimproved Park Land

Sabercat Creek Trail

Wooden Bridge

Antelope Knoll

Wine Storage Bldg

Banda Terrace (No Public Access)

Sabercat Creek Trail

Sabercat Creek

Mammoth Creek

Underpass

Gallinas Ave. Entrance

Culvert

Pine St. Entrance

Laurel Glen Common Stairs (No Public Access)

Becado Drive Entrance

Mission San Jose Elementary

to Ohlone College and Bay Area Ridge Trail

Old Mission Park

**Park Rules**

- Park is open daily from sunrise to sunset.
- No littering or dumping
- No smoking
- Pets must be kept on a leash at all times (maximum 6 feet) and must be kept under control
- Clean up after your pet
- Alcoholic beverages are prohibited
- Yield to pedestrians on trails
- No overnight camping
- No motorized vehicles
- Plants and animals (including plant parts, and whether dead or alive), and geologic, archaeologic, and historic objects are protected by law. Please do not disturb or remove any of these features.

**CITY OF FREMONT**

# Appendix 6.12:

## Upright Minor Entry Sign



# **Appendix 6.13:**

## **Temporary Creek Restoration Signs**

