OuterSpatial
A platform designed to help **park agencies, towns** and **nonprofit organizations** take advantage of the most innovative web and mobile technology.
Grown with ♥ by
Trailhead Labs

Trailhead Labs

In 2013, we decided to leverage all of our experience with technology and the outdoors to start Trailhead Labs. We've spent our time since continuing to learn, partner, and collaborate with outdoor groups all over to build innovative technology that engages people with the outdoors.

Our Work

We're somewhat unique in that we not only build a product, but we also provide outdoor technology-related services to government agencies, nonprofits, and companies.

OuterSpatial

OuterSpatial is our outdoor technology platform. It's designed specifically for organizations that steward open spaces and want to better engage with their visitors.

Professional Services

We also offer professional services, making over eighty years of domain experience and a rich history supporting the parks and recreation sector available to government agencies, nonprofits, and companies.

> *"**Tr**ailhead Labs is a critical part of the core team rebuilding the federal government's Recreation.gov website. Their leadership in innovative outdoor mapping and technology has been invaluable in aggregating, cleaning, and publishing recreation geospatial data and rebuilding the mapping platform for the new system. Their extensive experience with the open source community, the outdoor industry, and the public sector has been a tremendous asset for this project. We are excited to partner with them for many years to come."*
>
> **– Will Healy,** Principal at Booz Allen Hamilton Rec.Gov

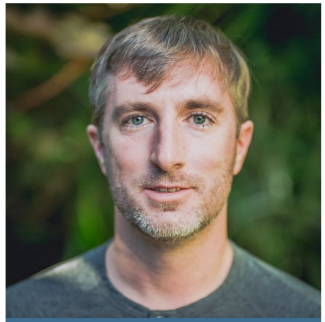
Trailhead Labs Team

RYAN BRANCIFORTE

Chief Executive Officer

JEREME MONTEAU

Chief Technology Officer



NATE IRWIN

Chief Product Officer

MARCEA ENNAMORATO

Product Designer

BRIAN RIORDAN

Chief Customer Officer

JASON FERRIER

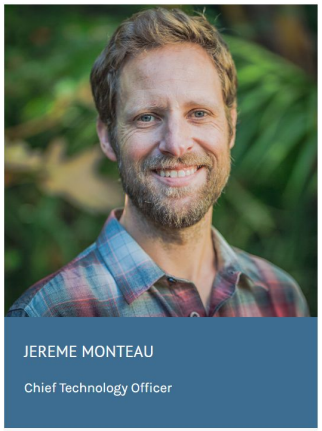
Software Engineer

Over 80 years of combined experience across a wide range of spatial industries, Trailhead Labs is built to make the complexity of trail networks look easy.

We are well positioned to quickly grow our team as we doubled in the last 6 months. Our philosophy is that technology can help elevate and empower our natural resources. The products we build are defined by quality and our passion to provide the best user experience and data to the outdoor community.

We are always looking for a way to change the trails game by providing just the right amount of disruption at the right time.

Jereme Monteau



- Pathological Runner
- Beer and Coffee Nerd
- Not A GIS Pro
- 4 Years in Bend

> “Trailhead Labs has been outstanding to work with on our new website and interactive map! OuterSpatial enabled us to aggregate and improve the accuracy of Napa County’s recreation assets, which include over 175 miles of trails within 34 parks for 12+ land management agencies. Our visitors now have current and updated information on all of the County’s parks, trails, and campgrounds via a modern interactive map and app.”
>
> **– John Woodbury,** General Manager - Napa Open Space District

The Outdoor Platform

Get your park and recreation data into the hands of visitors using modern, interactive maps and mobile apps, while deepening visitor engagement and gaining insight into your community.

OuterSpatial Manager

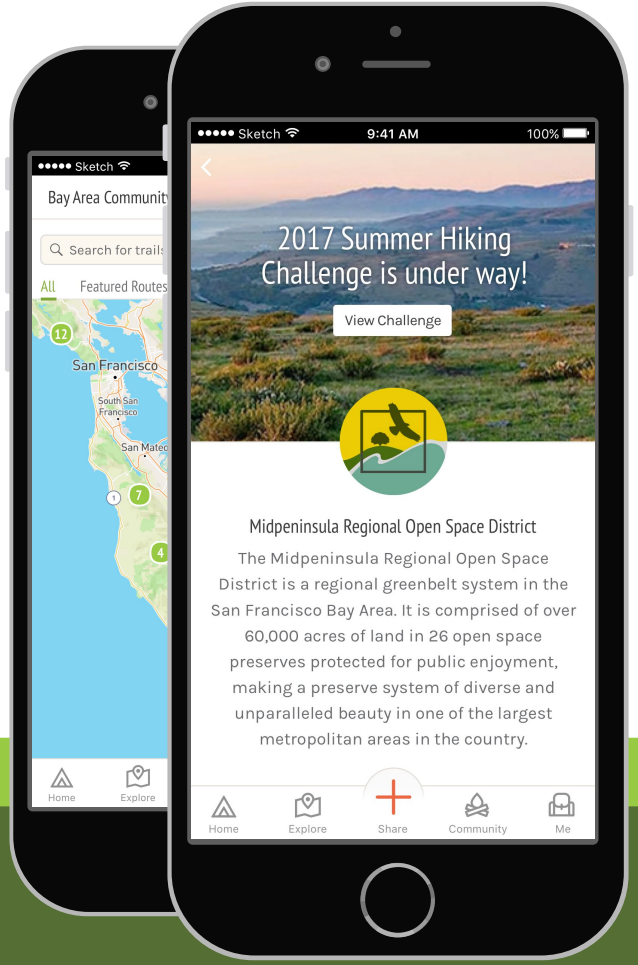
*One place to **manage** your outdoor park and recreation data and content, **build** and **publish maps**, and **deepen your understanding** of your visitors*

Mobile

Publish your data into native iOS and Android apps

Web

Turn your data into beautiful interactive maps



OuterSpatial Mobile

Native mobile applications are expensive to build and hard to maintain. OuterSpatial Mobile allows your organization to publish park and recreation data into a native mobile app experience that's specifically designed for outdoor recreation.

- ✓ Content customized for your community.
- ✓ Fully featured, modern native app with offline capabilities, gps tracking, geoPDF maps, and community posts.
- ✓ Promote custom challenges and incentive programs to bring more visitors to your park.
- ✓ Allow your visitors to check in, report issues, contribute back and share with their friends while out on the trail.
- ✓ Present only authoritative content from organizations.
- ✓ Website compliment – your info in the app and on the web!

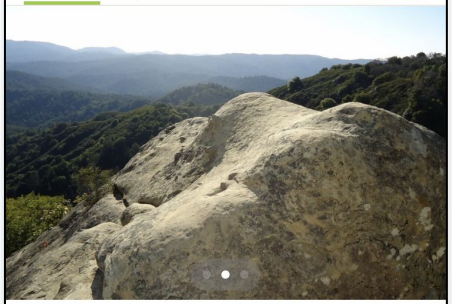
Need More Customization?

OuterSpatial Mobile gives you the power to create a custom branded application specifically for your organization, using your organization's logo, name, and look and feel. Just like the global version, your branded app will be freely available to visitors through the iTunes and Google Play stores.

Verizon 10:48 AM 85%

Castle Rock State Park

Information Map Social



Castle Rock State Park is a land of sculpted sandstone, lush forests, and sweeping vistas. From one of the highest ridges in the Santa Cruz Mountains, park visitors enjoy hiking, backpacking, and horseback riding. Rock climbers explore the park's caverns and rocks, including the namesake Castle Rock. Plant-lovers come for California black oaks, knobcone pines, and high-elevation coast redwoods. The park's 34 miles of rugged trails conveniently connect to an extensive trail

Verizon 10:49 AM 85%

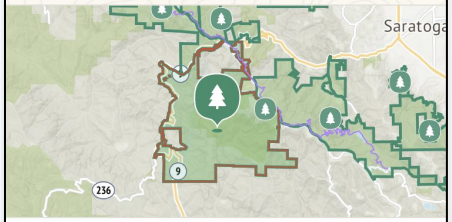
Castle Rock State Park

Information Map Social

Managed by
California State Parks

In partnership with
Sempervirens Fund

Map Gallery



Castle Rock State Park Map
A brochure map for Castle Rock State Park

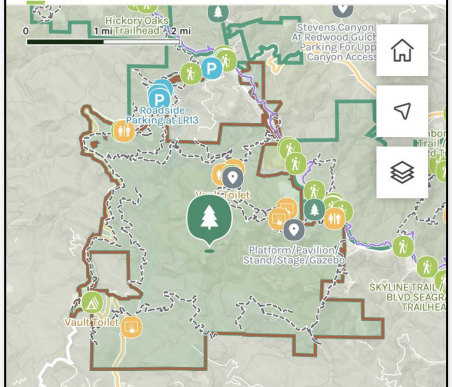
Documents

Campgrounds Brochure

Verizon 10:49 AM 83%

Search Locations

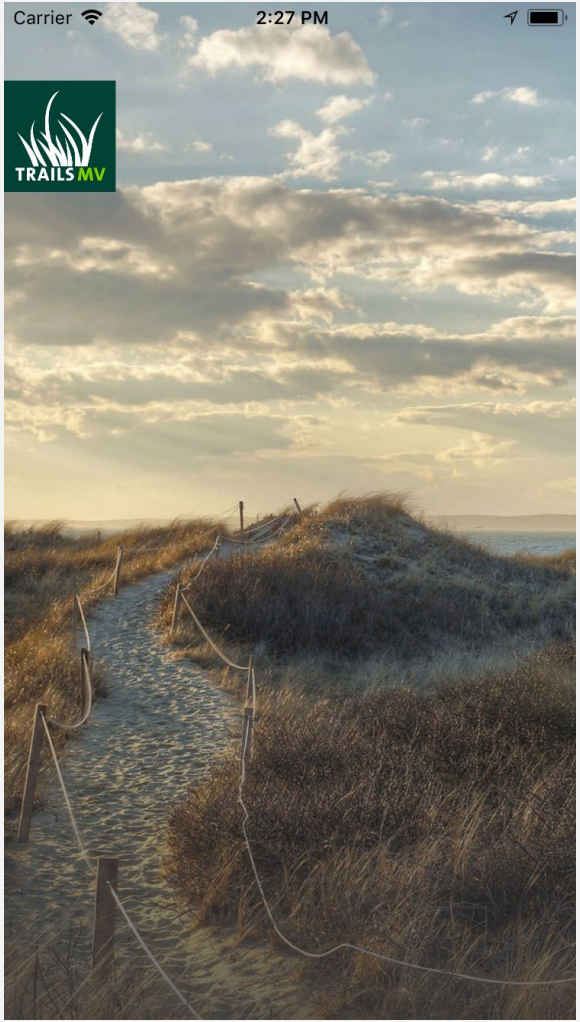
All Areas Outings Points of Interest Trails



Castle Rock State Park

Area

Home Explore Social Me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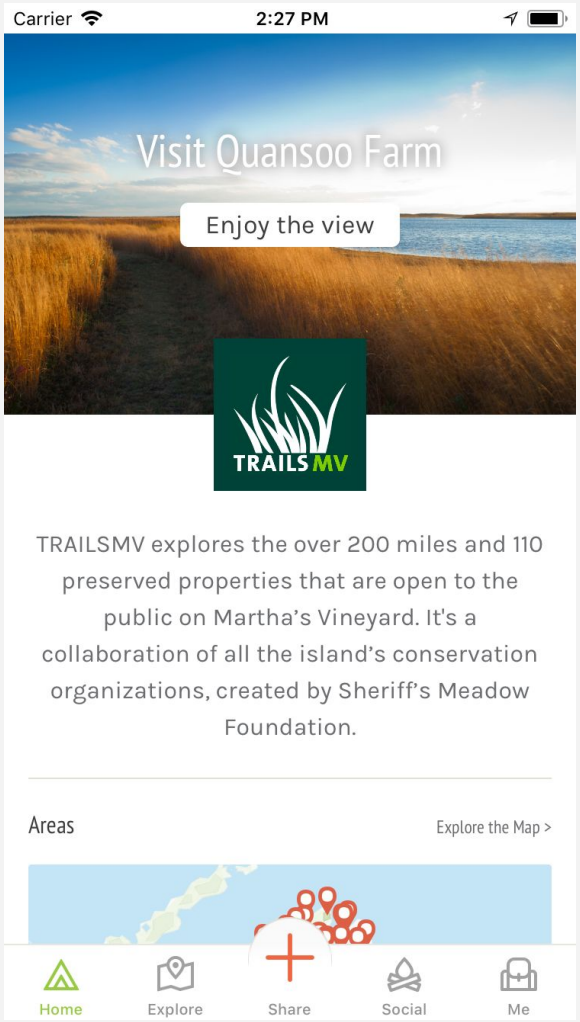
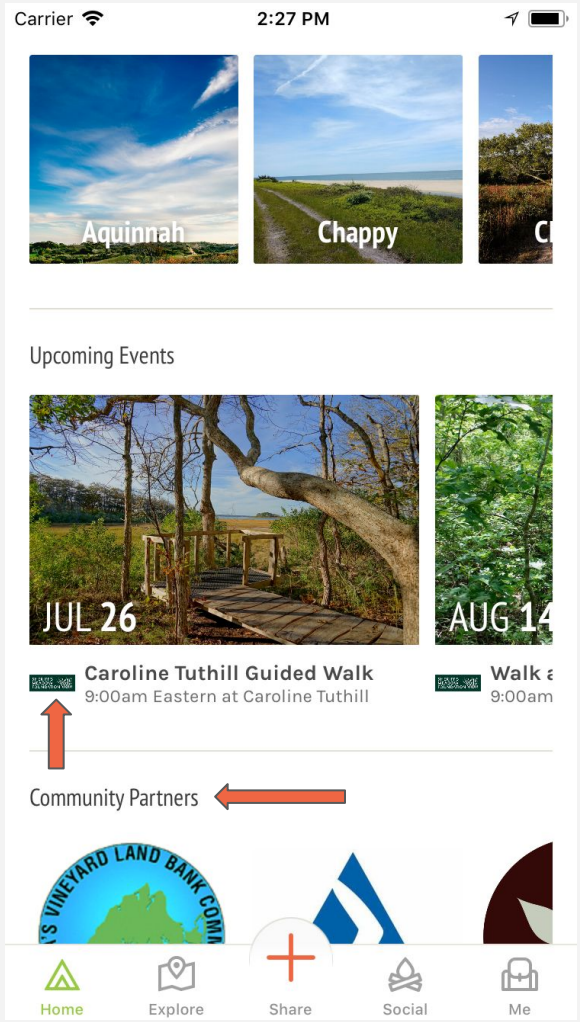
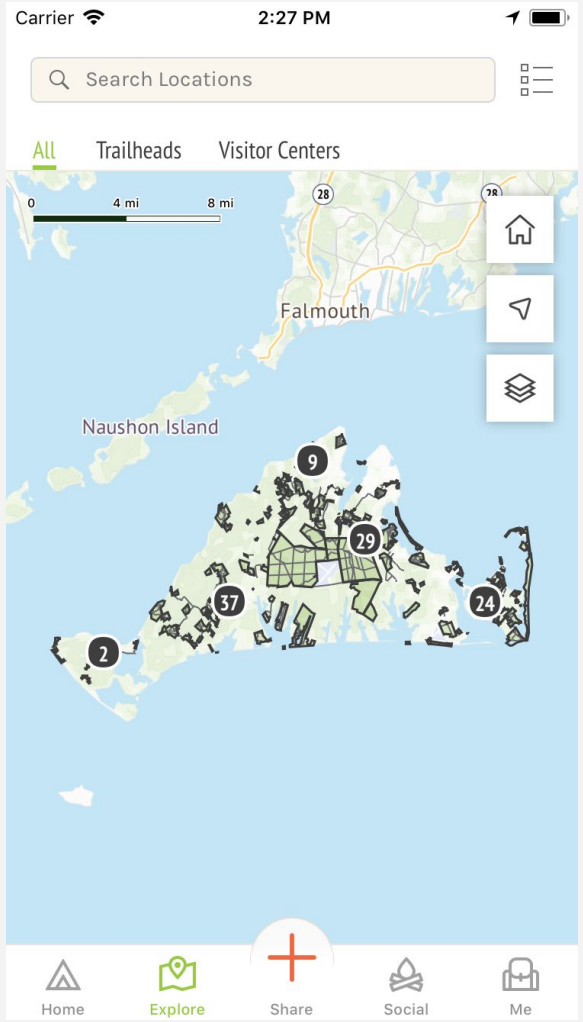
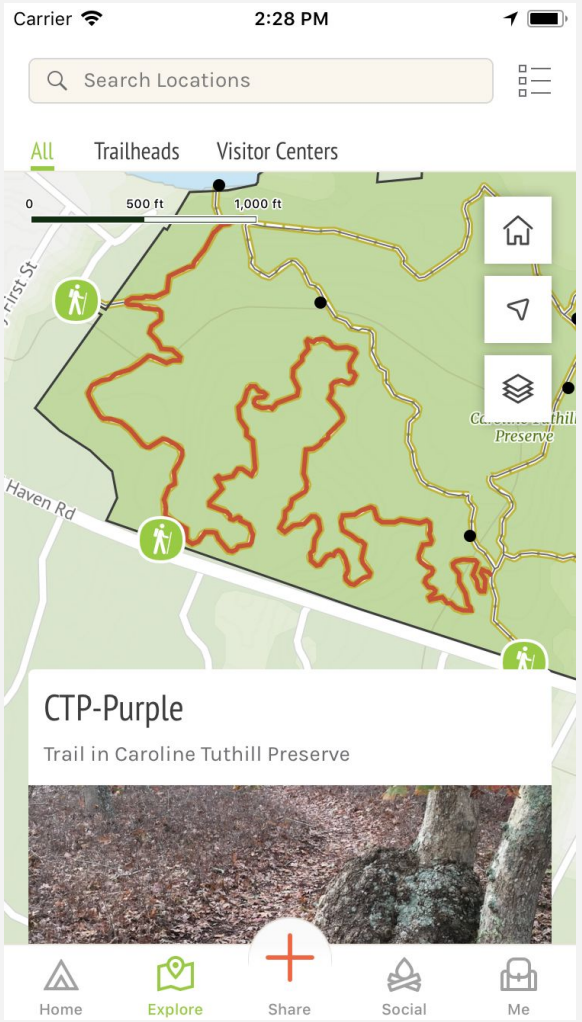
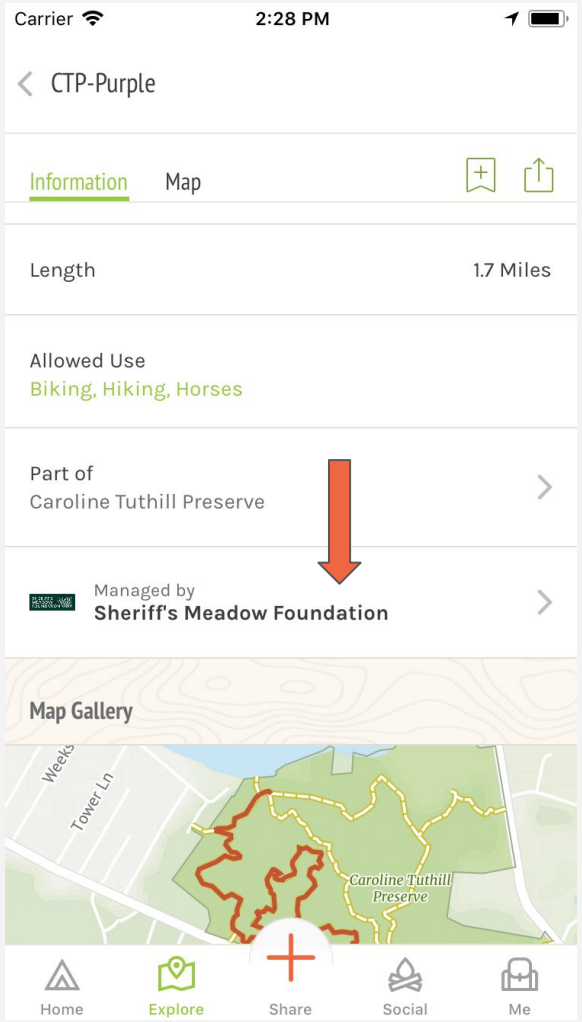
TRAILSMV

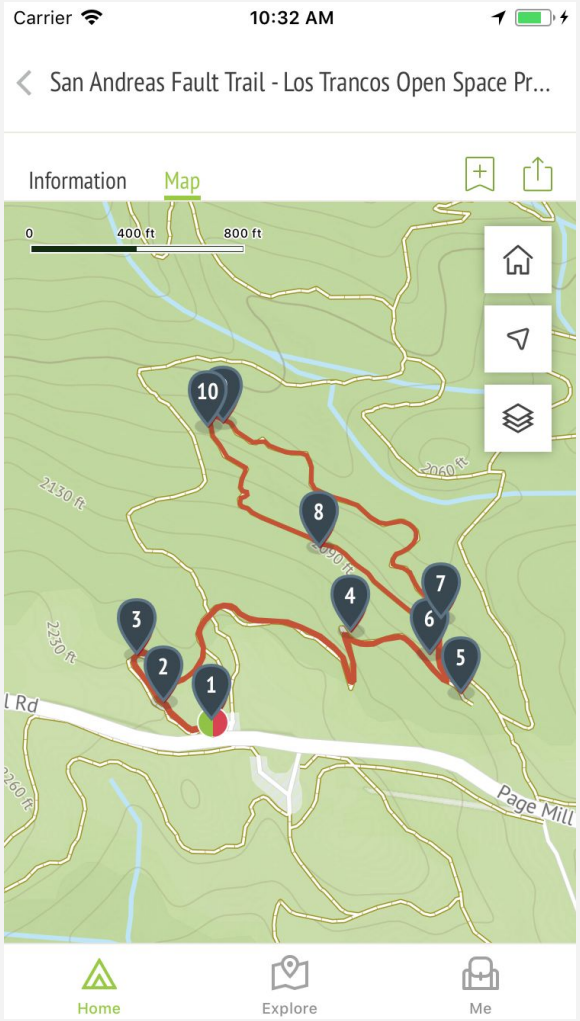

Carrier
2:27 PM
Visit Quansoo Farm
Enjoy the view
TRAILSMV
TRAILSMV explores the over 200 miles and 110 preserved properties that are open to the public on Martha's Vineyard. It's a collaboration of all the island's conservation organizations, created by Sheriff's Meadow Foundation.
Areas
Explore the Map >
Home
Explore
Share
Social
Me

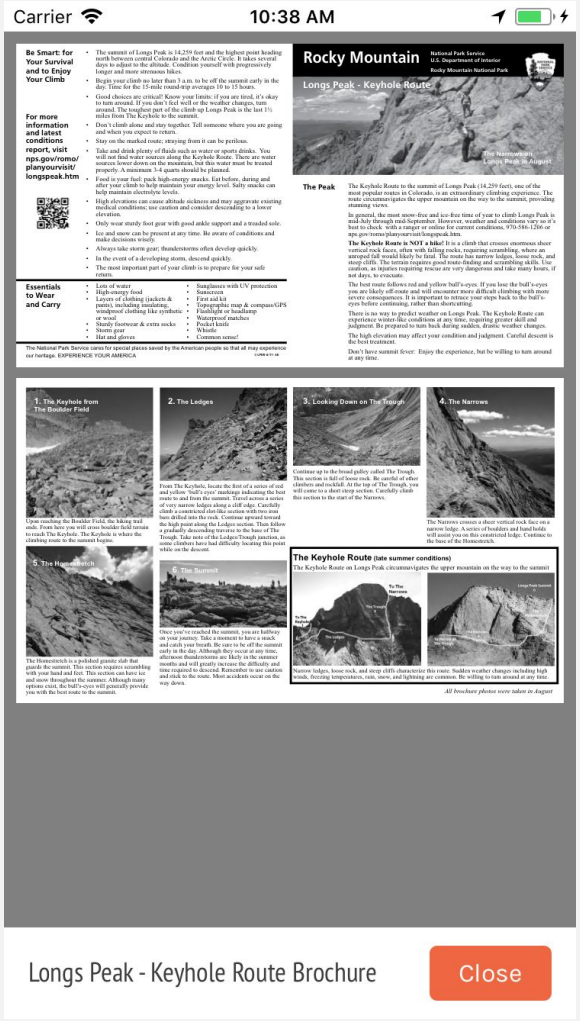

Carrier
2:27 PM
Aquinnah
Chappy
Upcoming Events
JUL 26
AUG 14
Caroline Tuthill Guided Walk
9:00am Eastern at Caroline Tuthill
Walk a
9:00am
Community Partners
Home
Explore
Share
Social
Me


Carrier
2:27 PM
Search Locations
All
Trailheads
Visitor Centers
0
4 mi
8 mi
Falmouth
Naushon Island
9
29
37
24
2
Home
Explore
Share
Social
Me


Carrier
2:28 PM
Search Locations
All
Trailheads
Visitor Centers
0
500 ft
1,000 ft
Haven Rd
Preserve
CTP-Purple
Trail in Caroline Tuthill Preserve
Home
Explore
Share
Social
Me


Carrier
2:28 PM
CTP-Purple
Information
Map
Length
1.7 Miles
Allowed Use
Biking, Hiking, Horses
Part of
Caroline Tuthill Preserve
Managed by
Sheriff's Meadow Foundation
Map Gallery
Weeks
Tower Ln
Caroline Tuthill
Preserve
Home
Explore
Share
Social
Me


Carrier
10:32 AM
San Andreas Fault Trail - Los Trancos Open Space Pr...
Information
Map
0
400 ft
800 ft
10
8
7
6
5
4
3
2
1
2130 ft
2060 ft
2090 ft
2230 ft
2260 ft
Page Mill
Home
Explore
Me

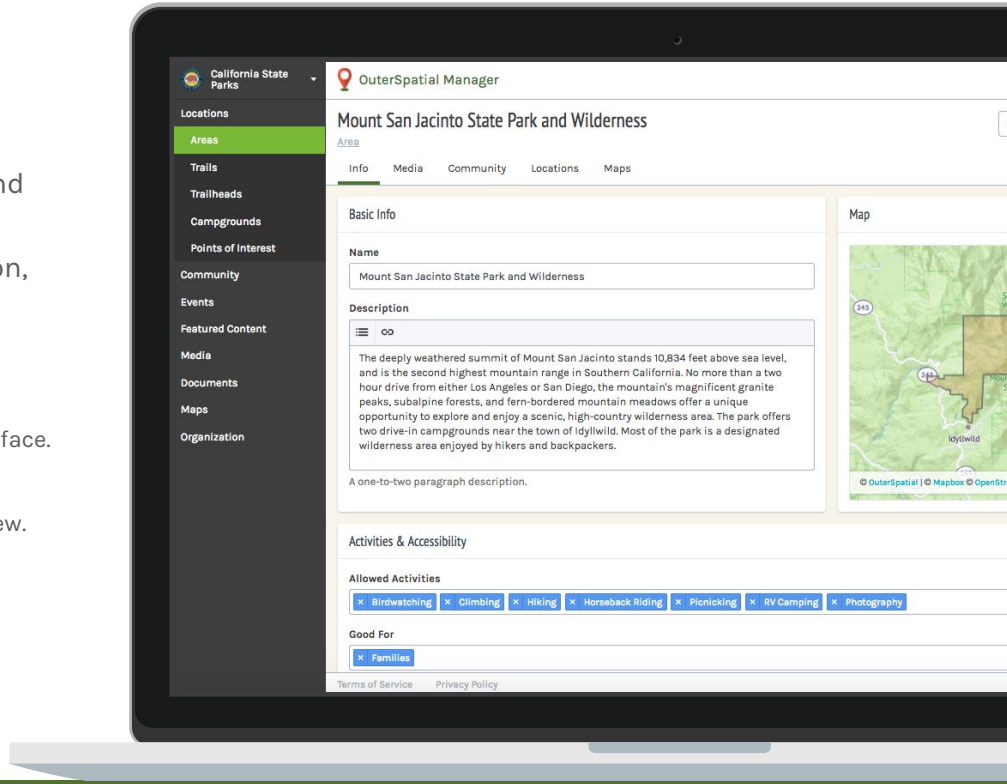

Carrier
10:38 AM
Rocky Mountain
Longs Peak - Keyhole Route
The Peak
Longs Peak - Keyhole Route Brochure
Close

Carrier
10:39 AM
0
1 mi
2 mi
3 mi
Old Fall River Road
Alluvial Fan
Endovalley
Rainbow Curve
Beaver Ponds
Hidden Valley
West Horseshoe Park
Forest Canyon
Trail Ridge Road
Many Parks Curve
Road closed from here west to Colorado River Trailhead mid-October to Memorial Day
Moraine Park
Bear Lake
Hide Paper Map
Brochure Map
Close

Manager

A sophisticated tool for managing your outdoor parks and recreation data online. Easily add interpretive and curatorial content to your existing geospatial information, such as photos, videos, engaging descriptions, events, and status information.

- ✓ Create & manage data using an easy-to-understand web interface.
- ✓ Connect and integrate your existing internal datasets.
- ✓ Georeference your paper maps for easy data creation and review.
- ✓ Add dynamic information such as closures and status.
- ✓ Own your data – download your content whenever you want.



OuterSpatial Publisher

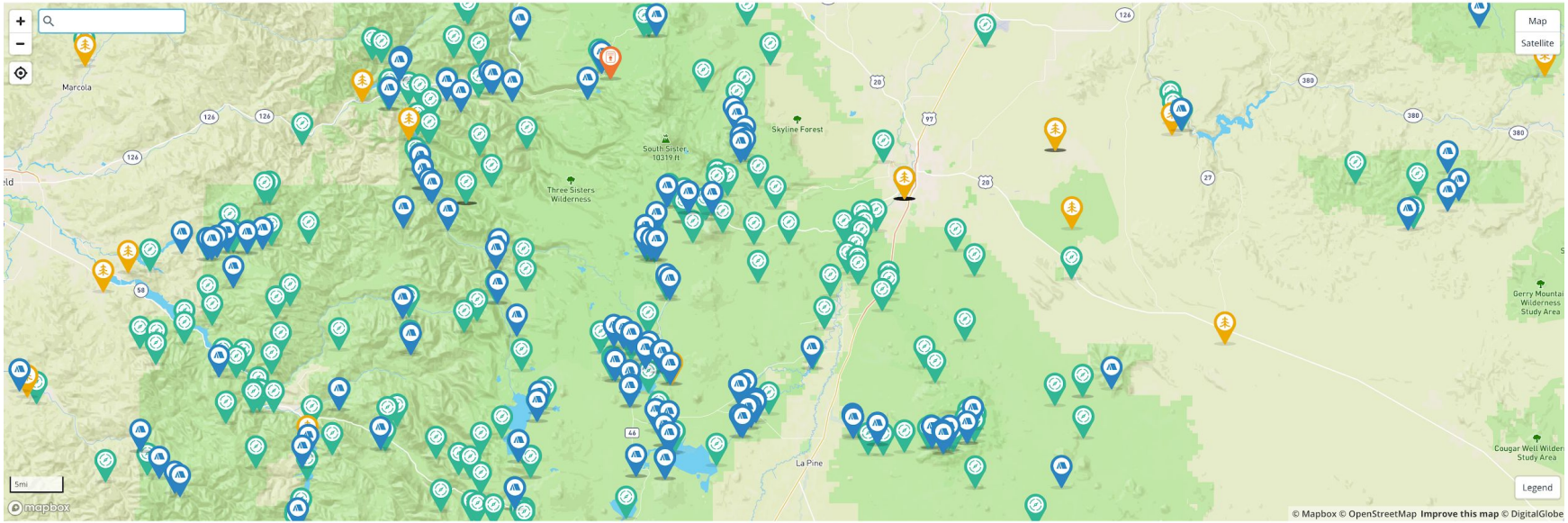
Use OuterSpatial Manager in conjunction with Publisher to open up your data, making it available for web/mobile developers, planners, consultants and other technologists. This modern developer hub allows you to integrate your data into your websites in various ways and even combine with partner organization content. Comprehensive guides and documentation make your content open and accessible,

Customers

Public agencies at all levels of government are actively using OuterSpatial — federal, state, regional, county, and city; as well as many nonprofit partner organizations.

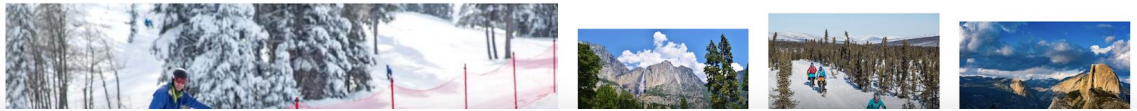
Explore Destinations & Activities

Discover new experiences, historic landmarks, and outdoor escapes right down the road or across the country. From camping, hiking, and horseback riding to wildlife viewing, monument tours, and ranger-led activities – you can find it on Recreation.gov!



Find Inspiration & Information

Our library of travel guides, tips and recommendations, insider insights and visitor stories provides inspiration and information to help you plan your next adventure.



Government-Driven

To ensure accuracy, certain data should come directly from our recreational resources

Government often struggles to create and maintain quality data and given the trends in government, it's unlikely to change soon

And "data" is just the beginning; stewards also need a way to publish alerts, status updates, etc. in a timely fashion…

As well as the "content" that sits on top of "data", which is also a critical part of the story

Government agencies can't simply work inside a vacuum

Industry-Driven

As a business, it's tempting to see recreation data as a problem that can be solved by simply throwing resources at it

When this happens, businesses start to see the data as a strategic asset

And bypassing stewards eliminates a critical piece of the feedback loop

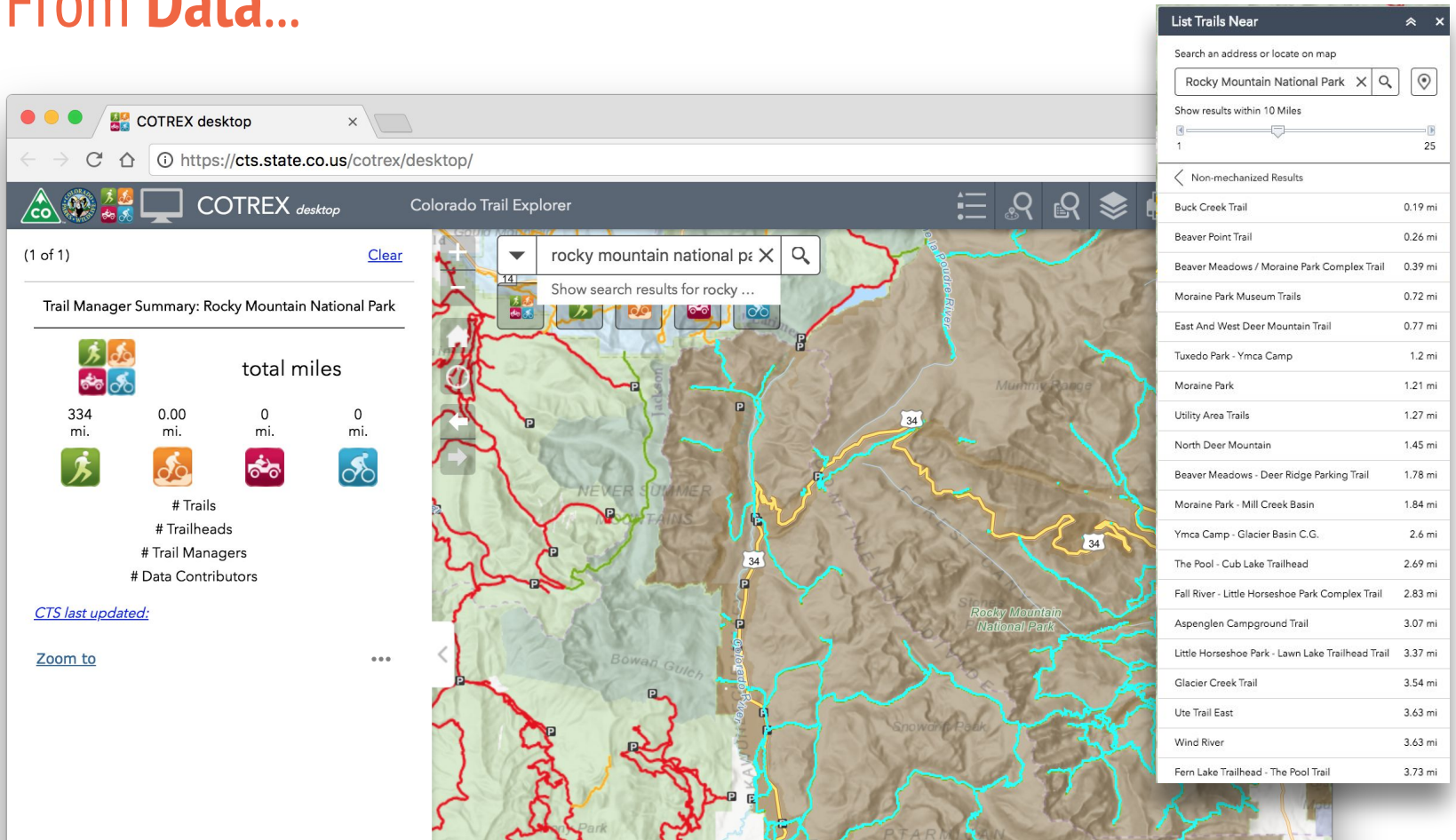
Stewards are tasked with protecting and managing our open spaces and often see the big picture (e.g. balancing natural resources and recreation) when others may not

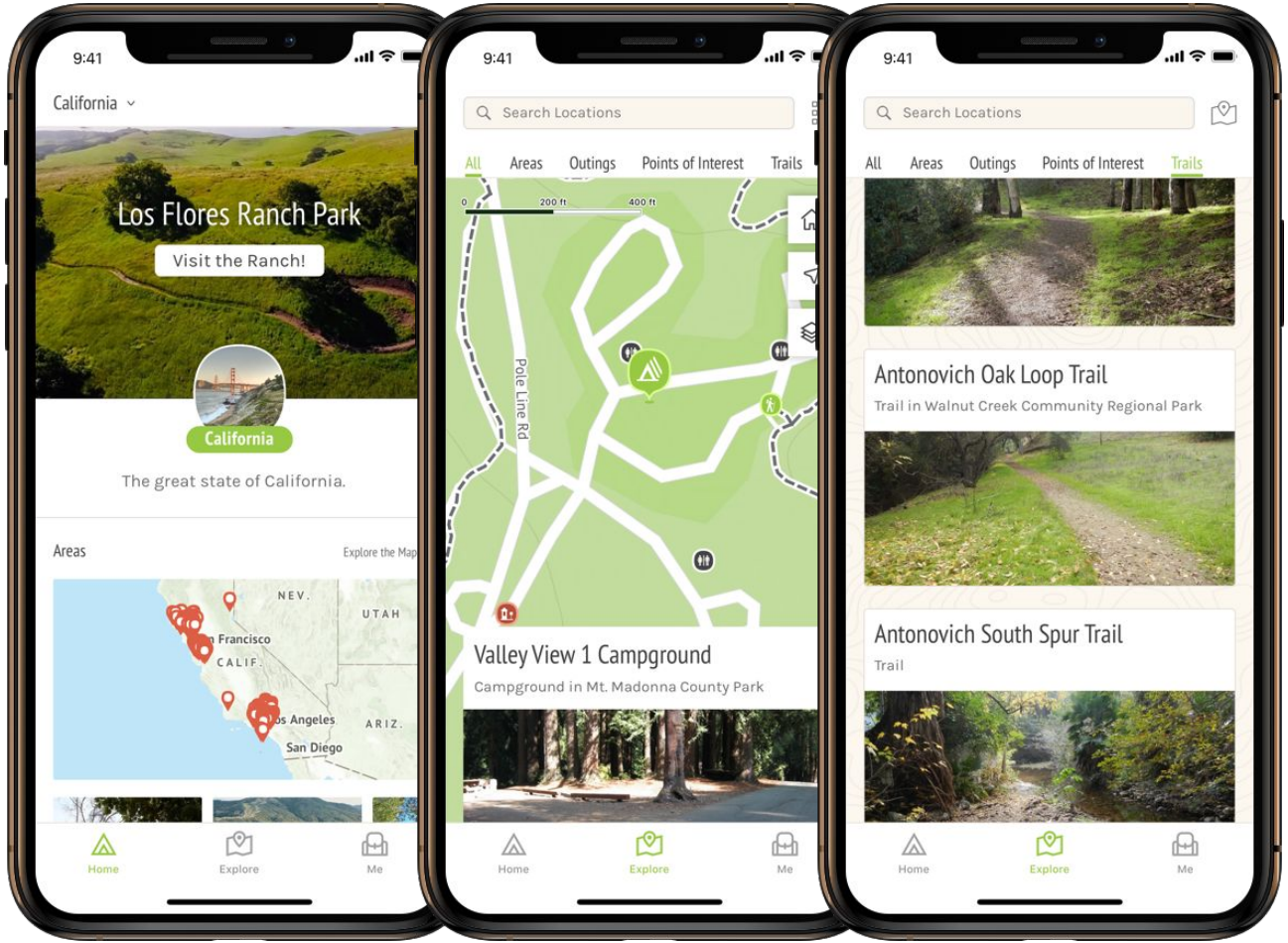
Collaborative

We've adopted an approach that sits somewhere in the middle

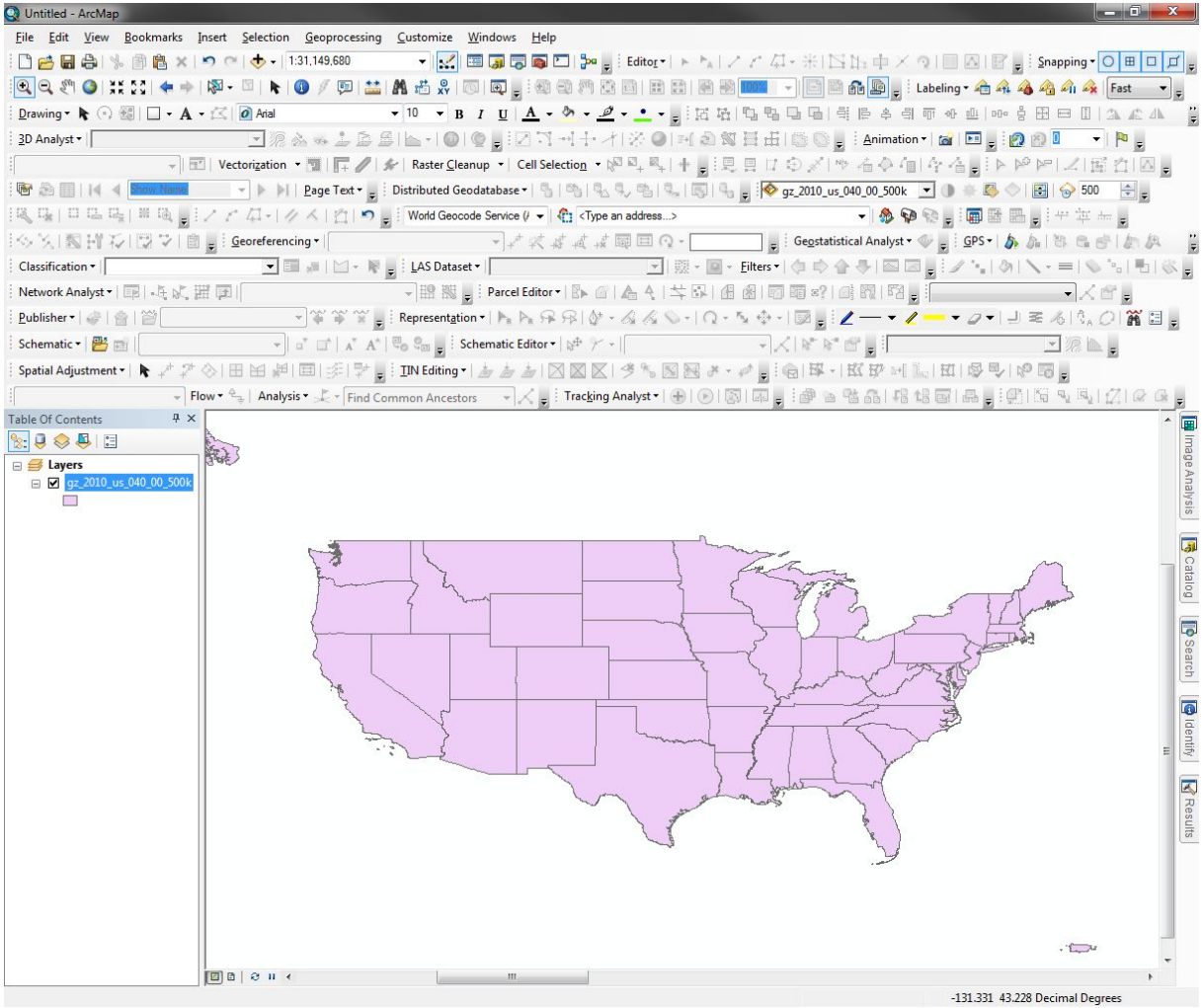
- ✓ We see an opportunity to establish channels of communication that build and foster passionate communities
- ✓ We want to see public agencies, nonprofit partners, recreationists, and industry working together
- ✓ Data can still flow up and through official pipelines, but contributions from others can help ensure data is accurate and up-to-date

From **Data**...


COTREX desktop
https://cts.state.co.us/cotrex/desktop/
COTREX desktop
Colorado Trail Explorer
(1 of 1)
Clear
Trail Manager Summary: Rocky Mountain National Park
total miles
334 mi.
0.00 mi.
0 mi.
0 mi.
Trails
Trailheads
Trail Managers
Data Contributors
CTS last updated:
Zoom to
rocky mountain national pa
Show search results for rocky ...
List Trails Near
Search an address or locate on map
Rocky Mountain National Park
Show results within 10 Miles
1
25
Non-mechanized Results
Buck Creek Trail 0.19 mi
Beaver Point Trail 0.26 mi
Beaver Meadows / Moraine Park Complex Trail 0.39 mi
Moraine Park Museum Trails 0.72 mi
East And West Deer Mountain Trail 0.77 mi
Tuxedo Park - Ymca Camp 1.2 mi
Moraine Park 1.21 mi
Utility Area Trails 1.27 mi
North Deer Mountain 1.45 mi
Beaver Meadows - Deer Ridge Parking Trail 1.78 mi
Moraine Park - Mill Creek Basin 1.84 mi
Ymca Camp - Glacier Basin C.G. 2.6 mi
The Pool - Cub Lake Trailhead 2.69 mi
Fall River - Little Horseshoe Park Complex Trail 2.83 mi
Aspenglen Campground Trail 3.07 mi
Little Horseshoe Park - Lawn Lake Trailhead Trail 3.37 mi
Glacier Creek Trail 3.54 mi
Ute Trail East 3.63 mi
Wind River 3.63 mi
Fern Lake Trailhead - The Pool Trail 3.73 mi


9:41
California
Los Flores Ranch Park
Visit the Ranch!
California
The great state of California.
Areas
Explore the Map
NEV.
UTAH
CALIF.
ARIZ.
San Diego
Home
Explore
Me
9:41
Search Locations
All
Areas
Outings
Points of Interest
Trails
0
200 ft
400 ft
Pole Line Rd
Valley View 1 Campground
Campground in Mt. Madonna County Park
Home
Explore
Me
9:41
Search Locations
All
Areas
Outings
Points of Interest
Trails
Antonovich Oak Loop Trail
Trail in Walnut Creek Community Regional Park
Antonovich South Spur Trail
Trail
Home
Explore
Me

...to **Content**


Untitled - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
Table Of Contents
Layers
gz_2010_us_040_00_500k
-131.331 43.228 Decimal Degrees

Locations
Areas
Trails
Trailheads
Campgrounds
Points of Interest
Outings
Community
Events
Featured Content
Media
Documents
Maps
Organization

Caballero Canyon Trail

Trail in Topanga State Park

Open | Delete | Save

Info | Community | Featured Content | Media | Documents | Maps

Basic Info

Name

Caballero Canyon Trail

Description

Caballero Canyon Trail is one of many trails providing connection to "Dirt" Mulholland (Mullholland Drive Trail).

Access from the south end of Reseda Boulevard. From the 101, exit at Reseda Boulevard and head south. Look for the trailhead on the right before you reach the end of the road.

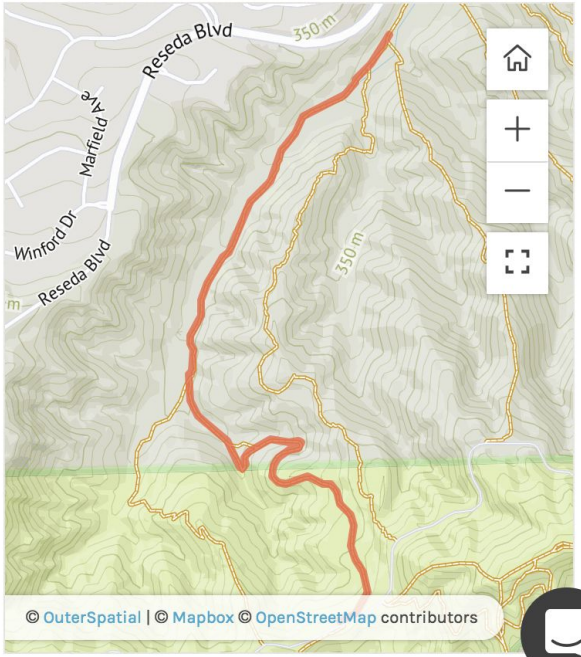
A one-to-two paragraph description.

Parent Area

Topanga State Park : California State Parks

The primary area this location is part of.

Map



COPYRIGHT © 2018 TRAILHEAD LABS

Jason Ferrier 3:30 PM

Friends don't let friends paste "Smart Quotes" from Microsoft Word into Agency datasets... ����������

Screen Shot 2018-12-19 at 16.28.59.png

ProjName	Shenango River Lake
psa_id	29404
PSAName	ﷺKidds Mill Bridge
fac_id	
fac_name	
fac_state	
loc_id	
name	Kidd﷽s Mill Covered Bridge
name_bk	
type	Amenity
subtype	Kidd﷽s Mill Covered Bridge
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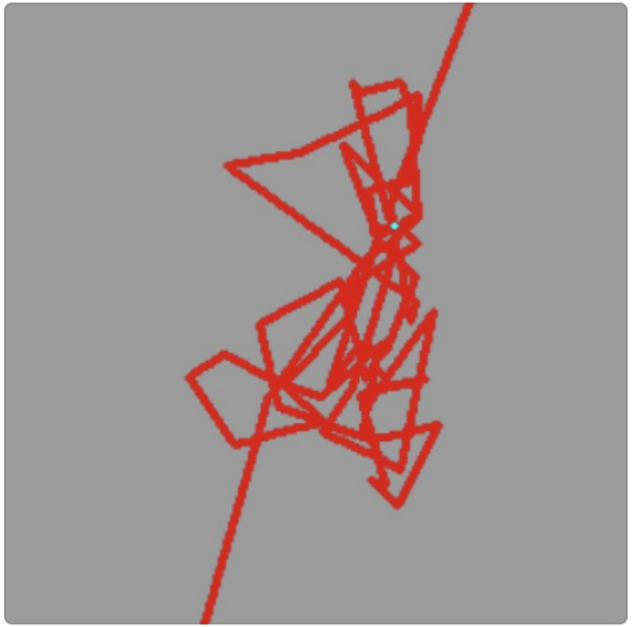
lng	-80.293600999999995

Brian Riordan 2:47 PM

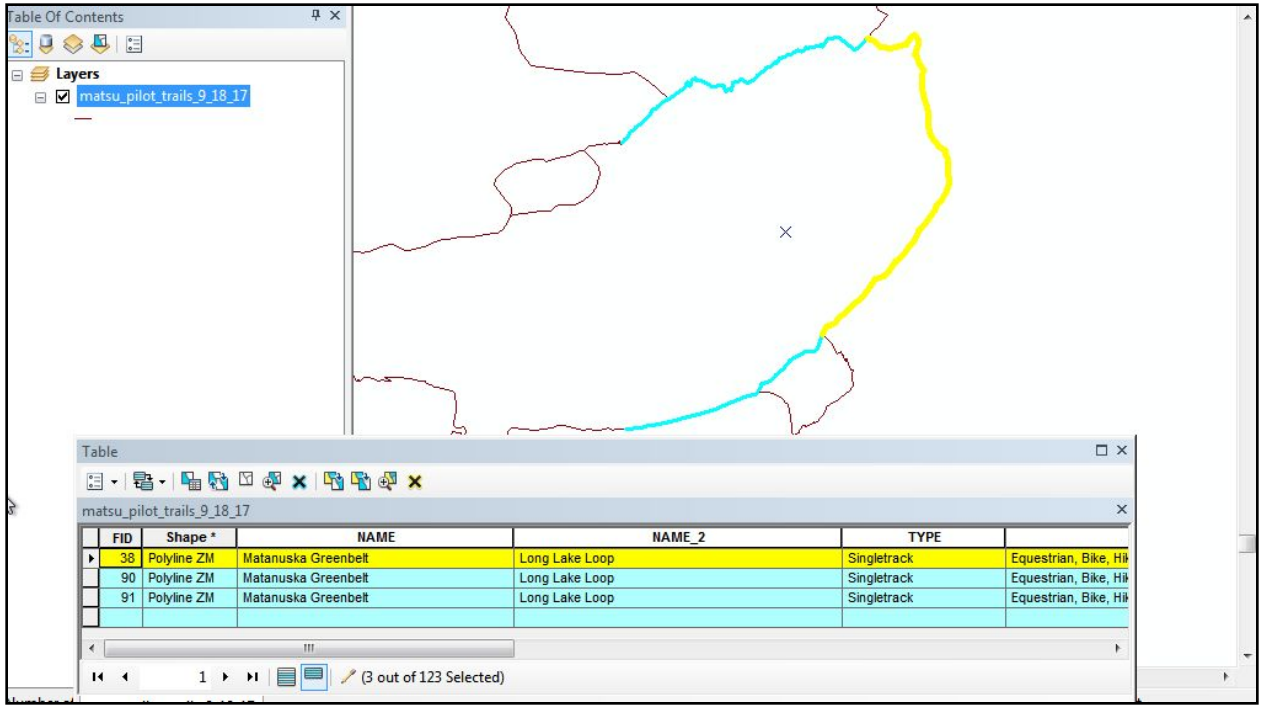
bad data killing me...

Pasted image at 2019-01-17, 5:47 PM

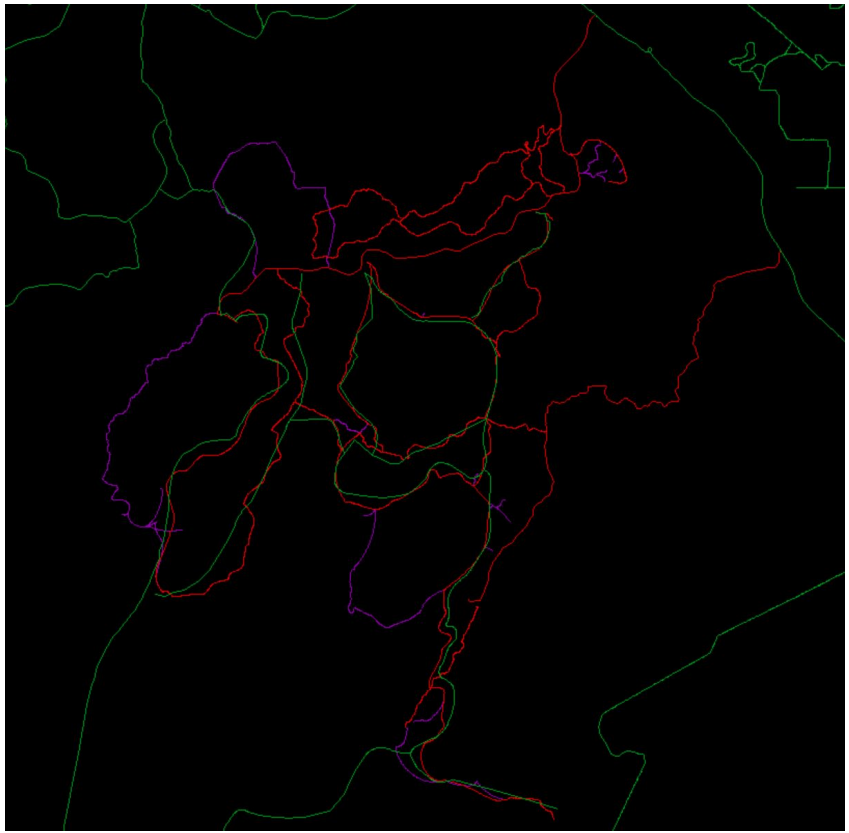


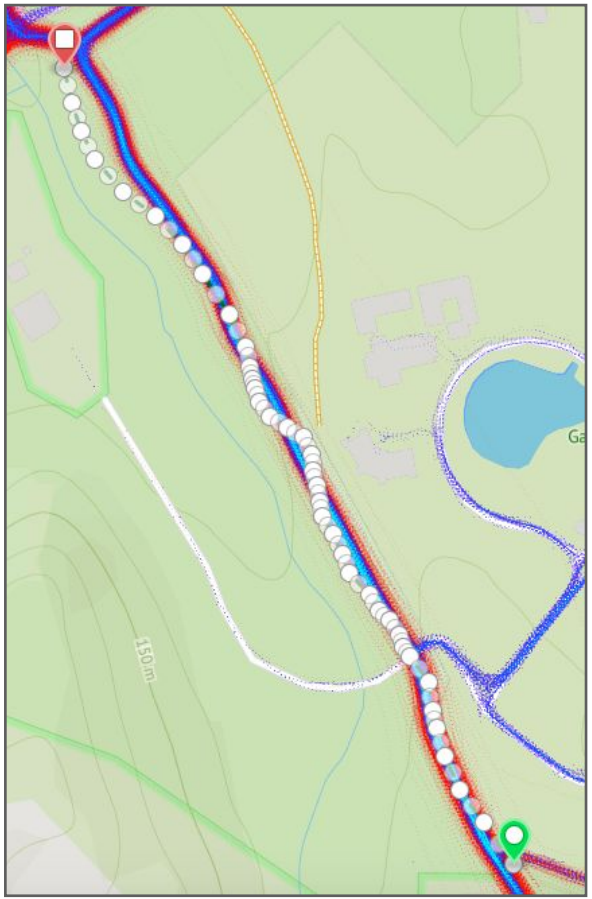
2

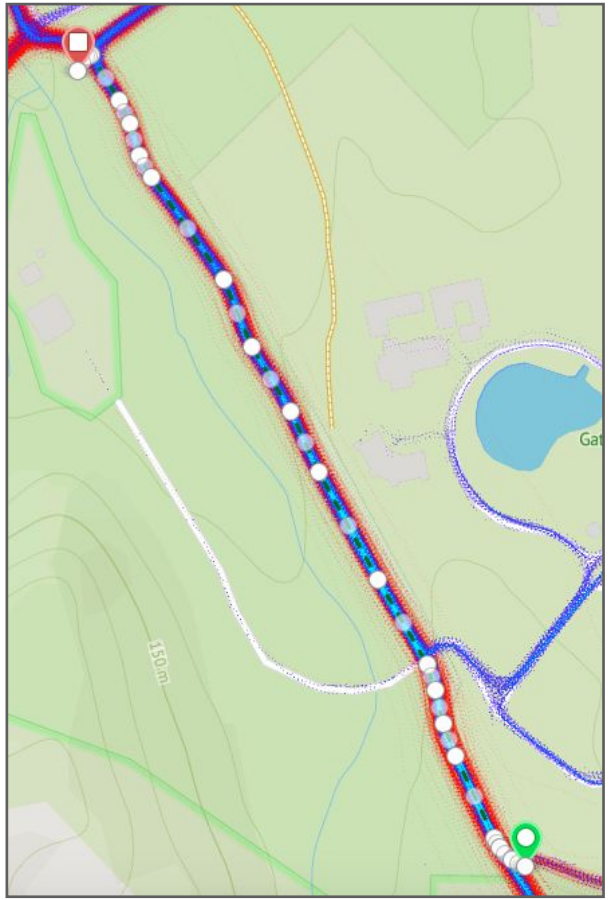
Overlapping trail segmented. Deleted the overlapping segment.



3 Agencies + 1 Network = Conflation




150m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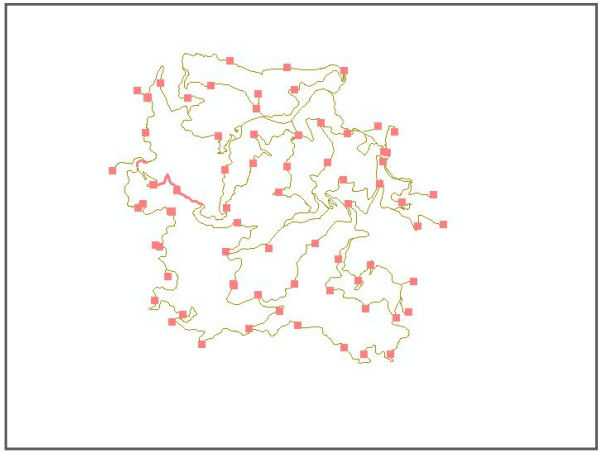
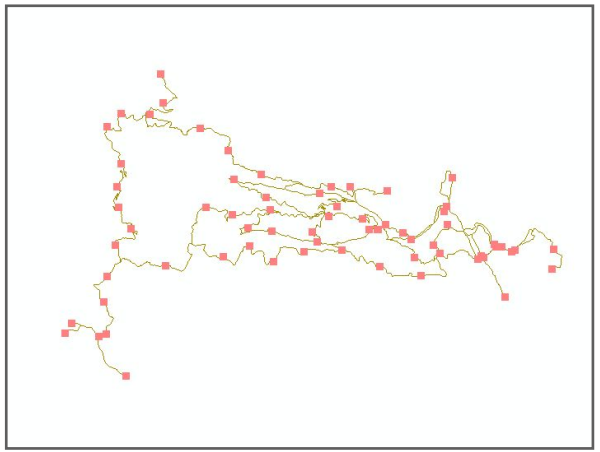
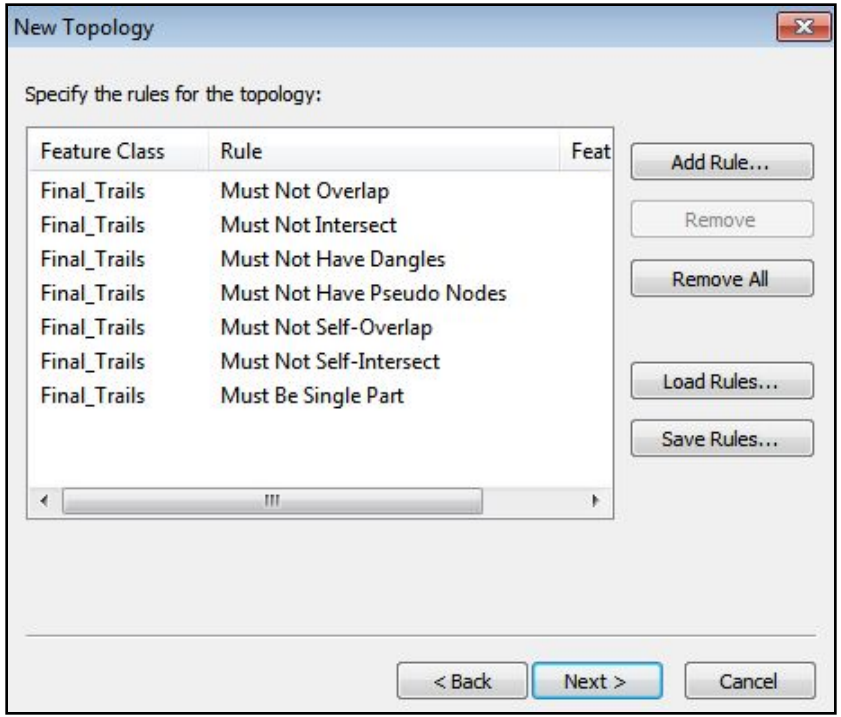
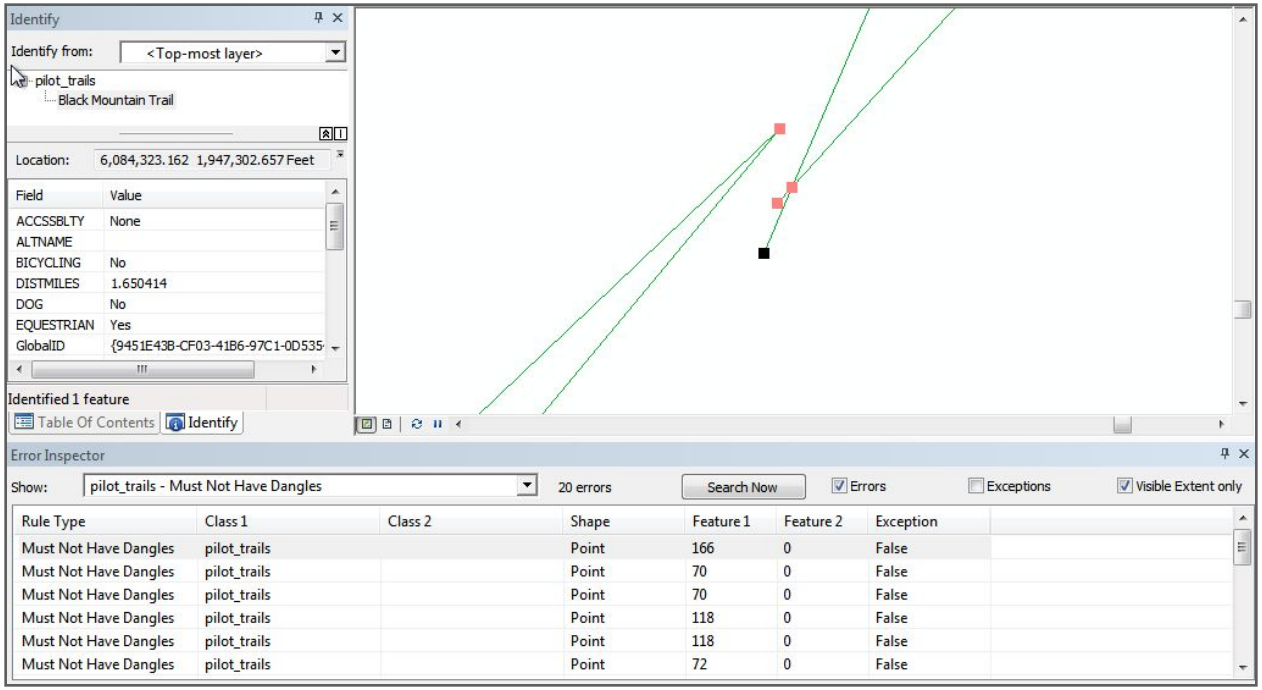
250 m
250 m

250 m
250 m






New Topology
Specify the rules for the topology:
Feature Class
Rule
Feat
Final_Trails
Must Not Overlap
Final_Trails
Must Not Intersect
Final_Trails
Must Not Have Dangles
Final_Trails
Must Not Have Pseudo Nodes
Final_Trails
Must Not Self-Overlap
Final_Trails
Must Not Self-Intersect
Final_Trails
Must Be Single Part
Add Rule...
Remove
Remove All
Load Rules...
Save Rules...
< Back
Next >
Cancel


Identify
Identify from:
<Top-most layer>
pilot_trails
Black Mountain Trail
Location:
6,084,323.162 1,947,302.657 Feet
Field
Value
ACCSSBLTY
None
ALTNAME
BICYCLING
No
DISTMILES
1.650414
DOG
No
EQUESTRIAN
Yes
GlobalID
{9451E43B-CF03-41B6-97C1-0D535
Identified 1 feature
Table Of Contents
Identify
Error Inspector
Show:
pilot_trails - Must Not Have Dangles
20 errors
Search Now
Errors
Exceptions
Visible Extent only
Rule Type
Class 1
Class 2
Shape
Feature 1
Feature 2
Exception
Must Not Have Dangles
pilot_trails
Point
166
0
False
Must Not Have Dangles
pilot_trails
Point
70
0
False
Must Not Have Dangles
pilot_trails
Point
70
0
False
Must Not Have Dangles
pilot_trails
Point
118
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False
Must Not Have Dangles
pilot_trails
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118
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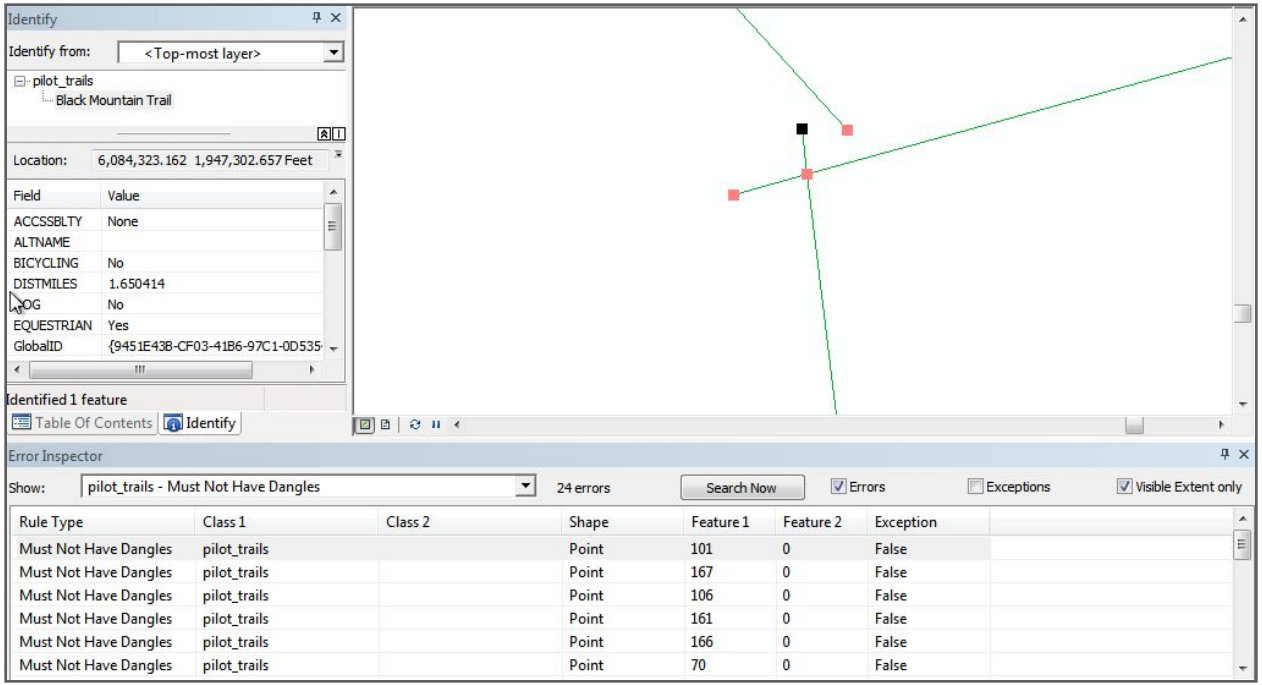
False
Must Not Have Dangles
pilot_trails
Point
72
0
False


Identify
Identify from:
<Top-most layer>
pilot_trails
Black Mountain Trail
Location:
6,084,323.162 1,947,302.657 Feet
Field
Value
ACCSSBLTY
None
ALTNAME
BICYCLING
No
DISTMILES
1.650414
OG
No
EQUESTRIAN
Yes
GlobalID
{9451E43B-CF03-41B6-97C1-0D535
Identified 1 feature
Table Of Contents
Identify
Error Inspector
Show:
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Search Now
Errors
Exceptions
Visible Extent only
Rule Type
Class 1
Class 2
Shape
Feature 1
Feature 2
Exception
Must Not Have Dangles
pilot_trails
Point
101
0
False
Must Not Have Dangles
pilot_trails
Point
167
0
False
Must Not Have Dangles
pilot_trails
Point
106
0
False
Must Not Have Dangles
pilot_trails
Point
161
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pilot_trails
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Must Not Have Dangles
pilot_trails
Point
70
0
False

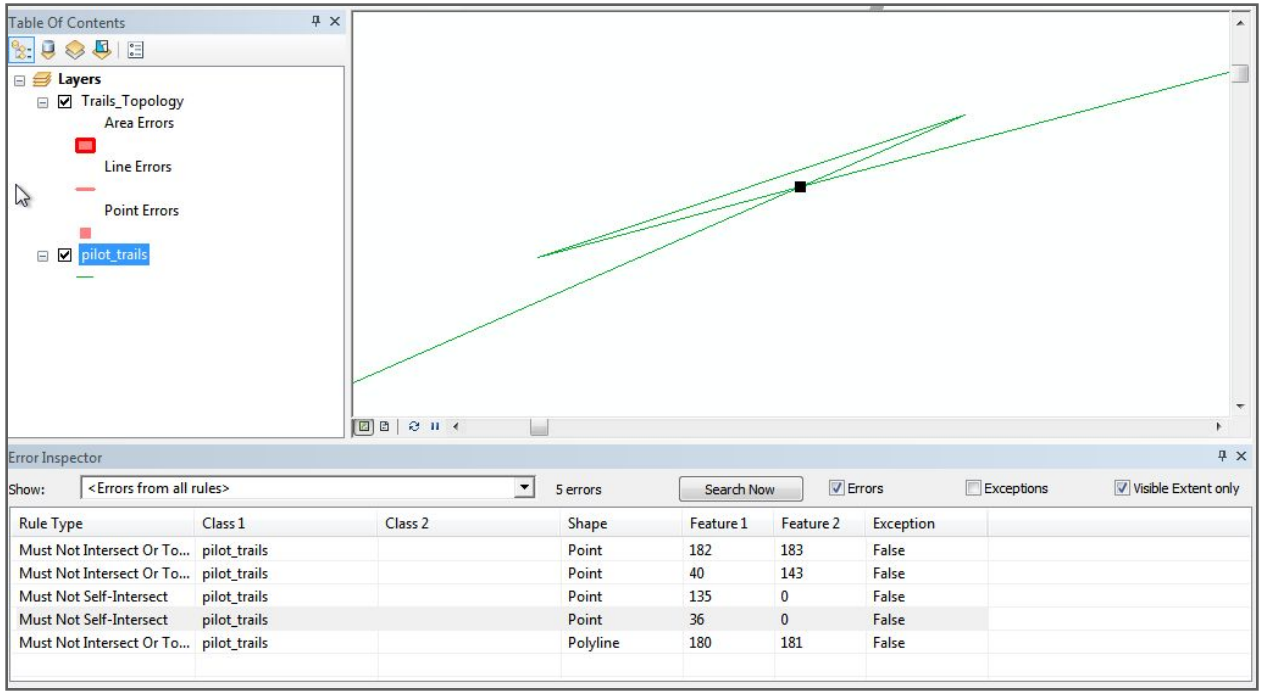
Table Of Contents
Layers
Trails_Topology
Area Errors
Line Errors
Point Errors
pilot_trails
Error Inspector
Show:
<Errors from all rules>
5 errors
Search Now
Errors
Exceptions
Visible Extent only
Rule Type
Class 1
Class 2
Shape
Feature 1
Feature 2
Exception
Must Not Intersect Or To... pilot_trails Point 182 183 False
Must Not Intersect Or To... pilot_trails Point 40 143 False
Must Not Self-Intersect pilot_trails Point 135 0 False
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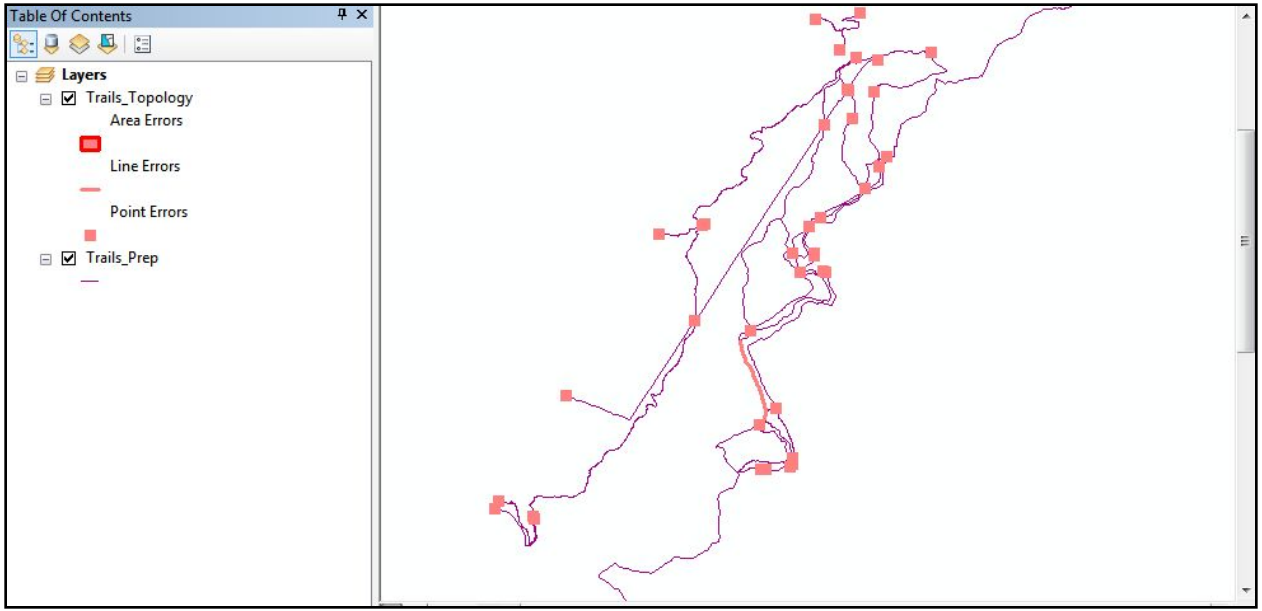
Must Not Intersect Or To... pilot_trails Polyline 180 181 False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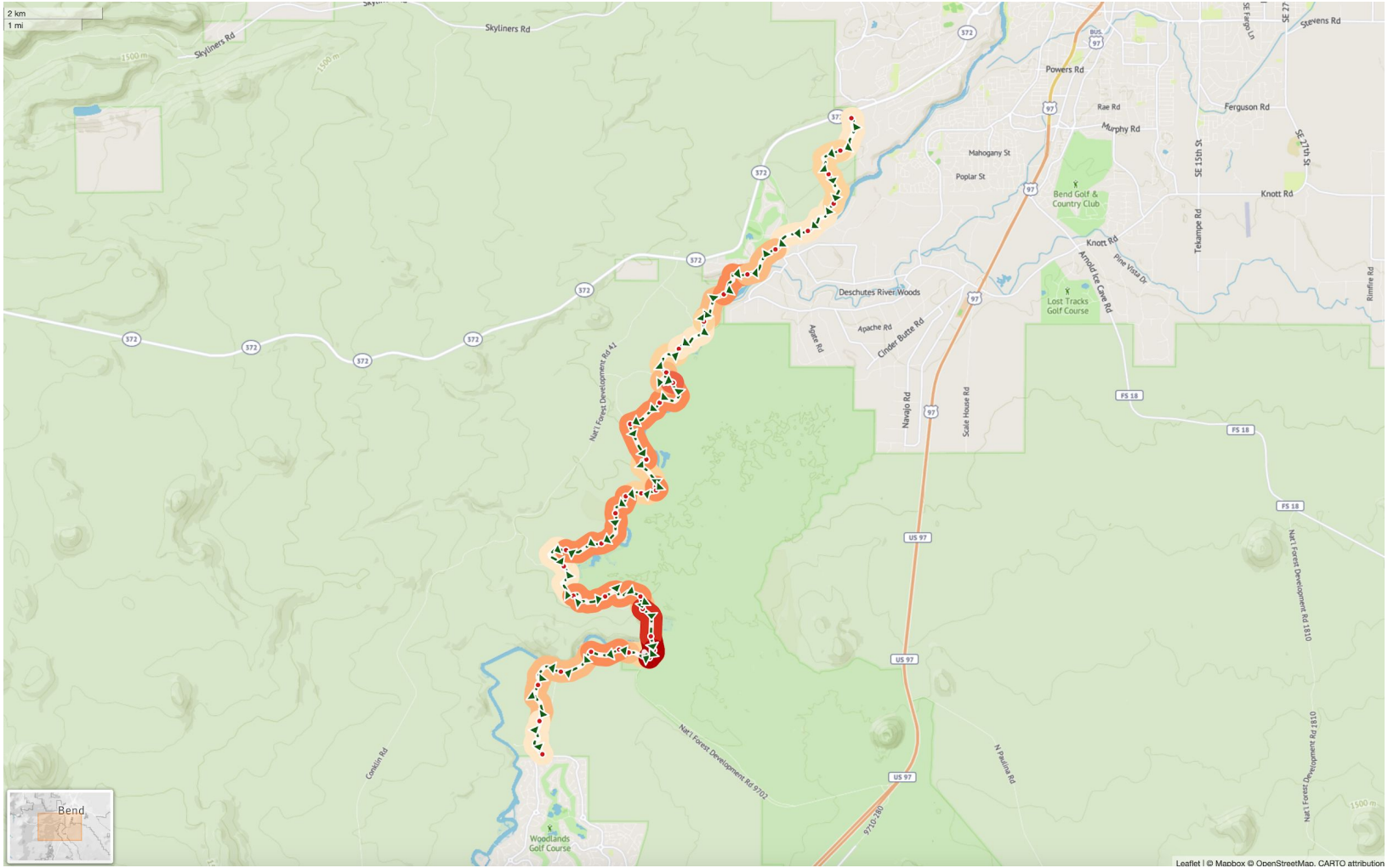
Trails_Topology
Area Errors
Line Errors
Point Errors
Trails_Prep


2 km
1 mi
Skyliners Rd
Powers Rd
Rae Rd
Murphy Rd
Ferguson Rd
Stevens Rd
Mahogany St
Poplar St
Bend Golf & Country Club
SE 15th St
Knott Rd
Tekampe Rd
Deschutes River Woods
Lost Tracks Golf Course
Arnold Ice Cave Rd
Pine Vista Dr
Apache Rd
Agate Rd
Cinder Butte Rd
Navajo Rd
Scale House Rd
Nat'l Forest Development Rd 42
FS 18
US 97
Nat'l Forest Development Rd 1810
Nat'l Forest Development Rd 9702
Conklin Rd
N Paulina Rd
Woodlands Golf Course
Bend
Leaflet | © Mapbox © OpenStreetMap, CARTO attribution

Save

Find Sites [x]

Availability

Arrival Date

Departure Date

Not Flexible

Loop

Any Loop

Site #

Looking for

Any type of site

- Pets allowed
- Accessibility needs
- Water hookup
- Sewer hookup
- Pull-through driveway
- Waterfront

Electric hookup

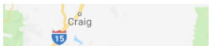
Not Required

Occupants

Length (ft)

Search

Find your spot



Find Other Facilities

DEVIL'S ELBOW RECREATION AREA, MT

part of Butte , *Bureau of Land Management*

Like 1

Status: Open year round. Season Dates

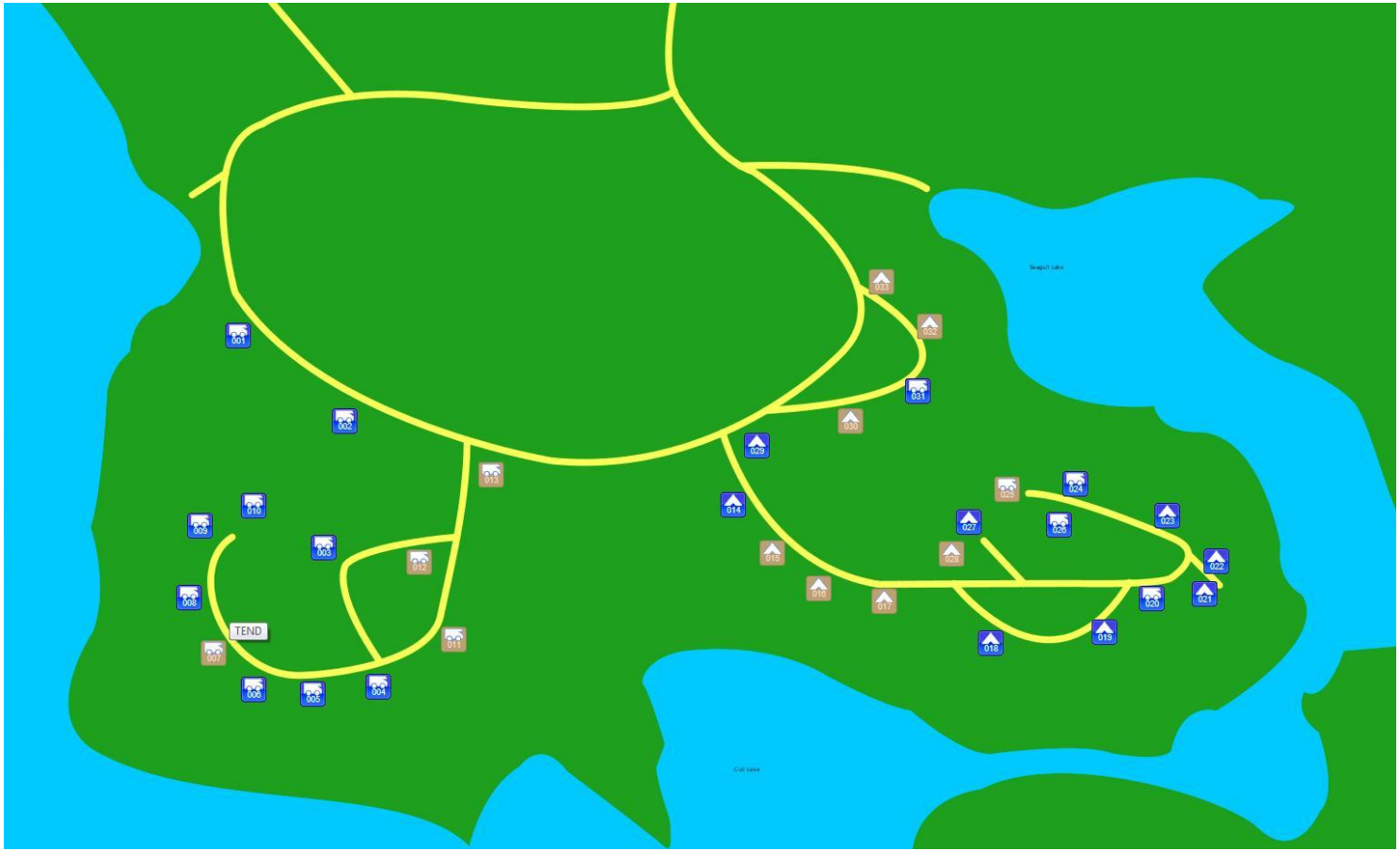
Facility Details | **Facility Map** | Site List | Date Range Availability

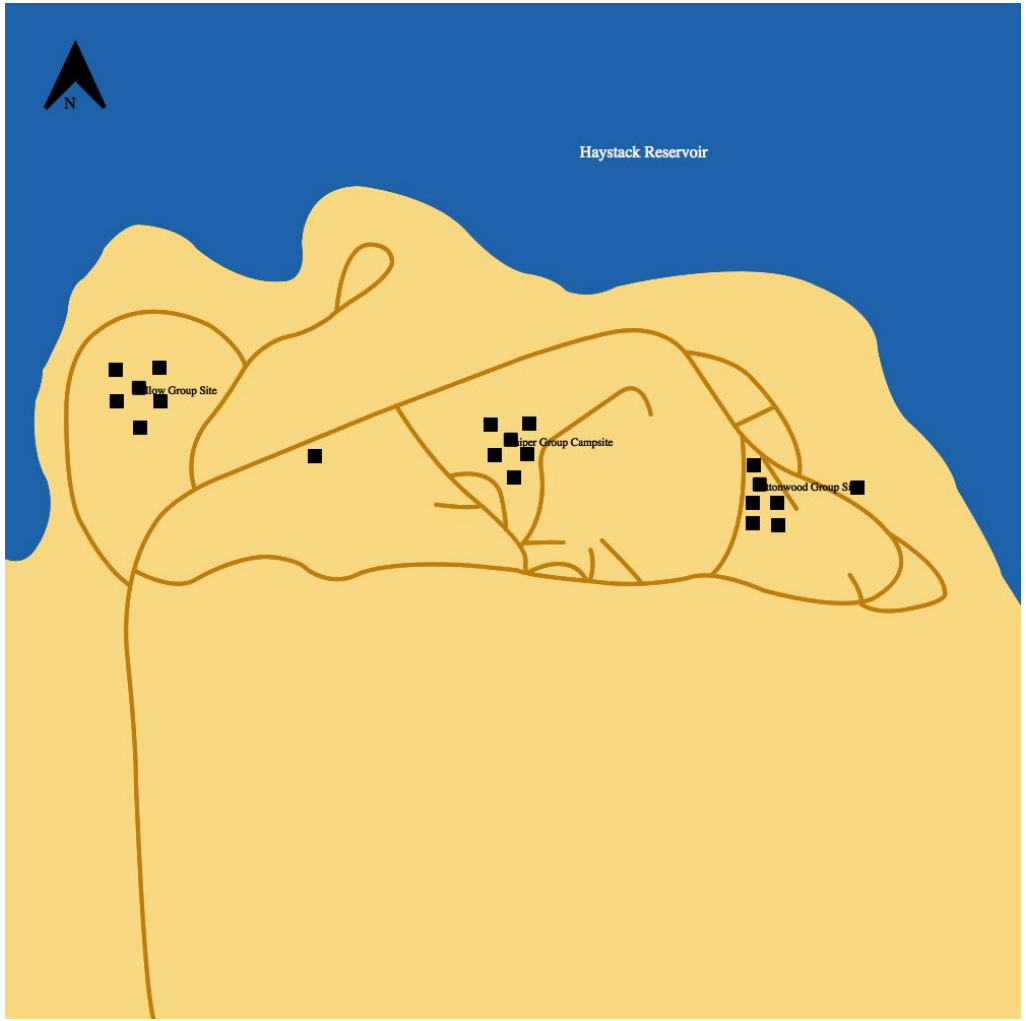
16 site(s) found

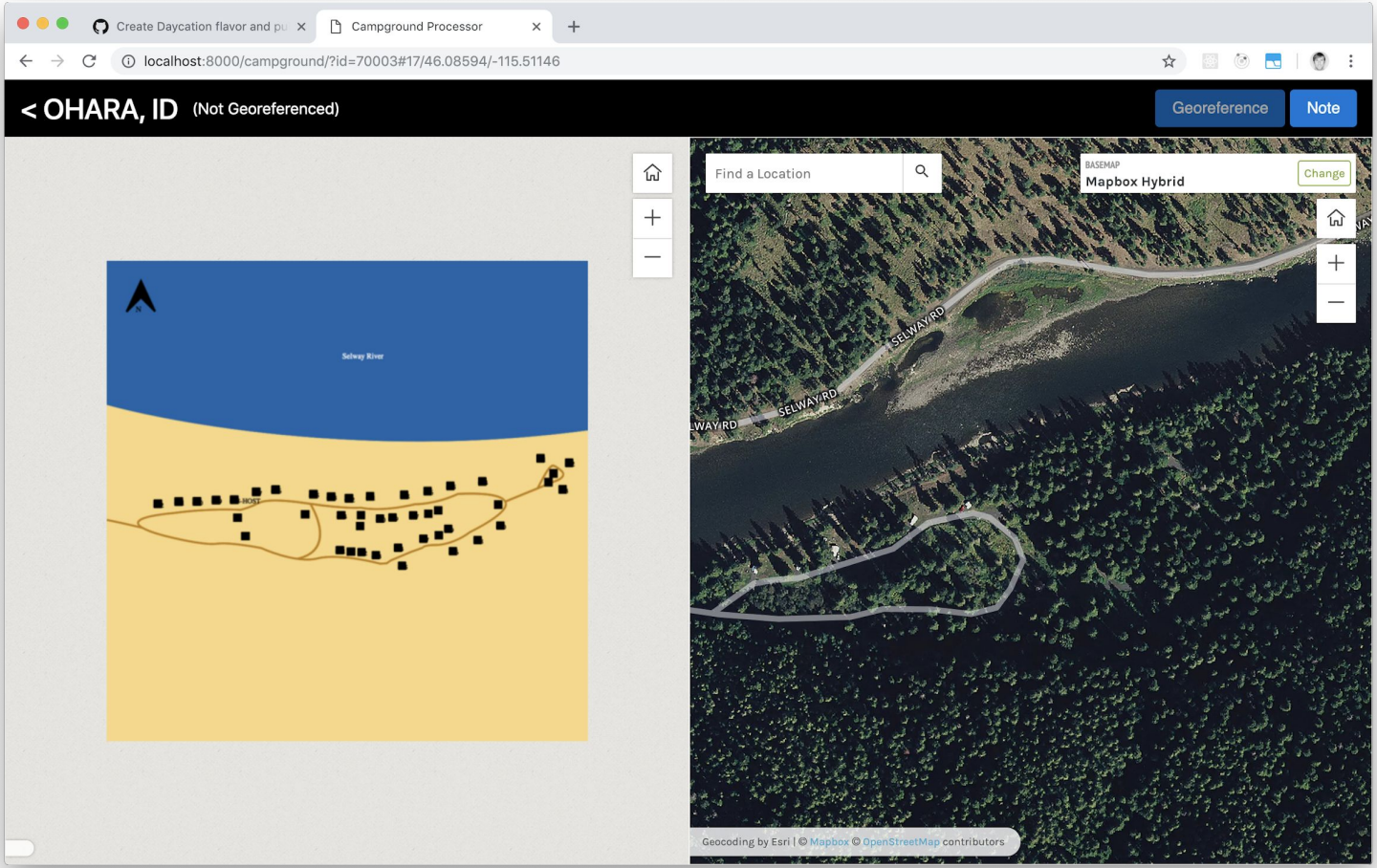
ALL (16) GROUP SHELTER ELECTRIC (1) RV NONELECTRIC (15)

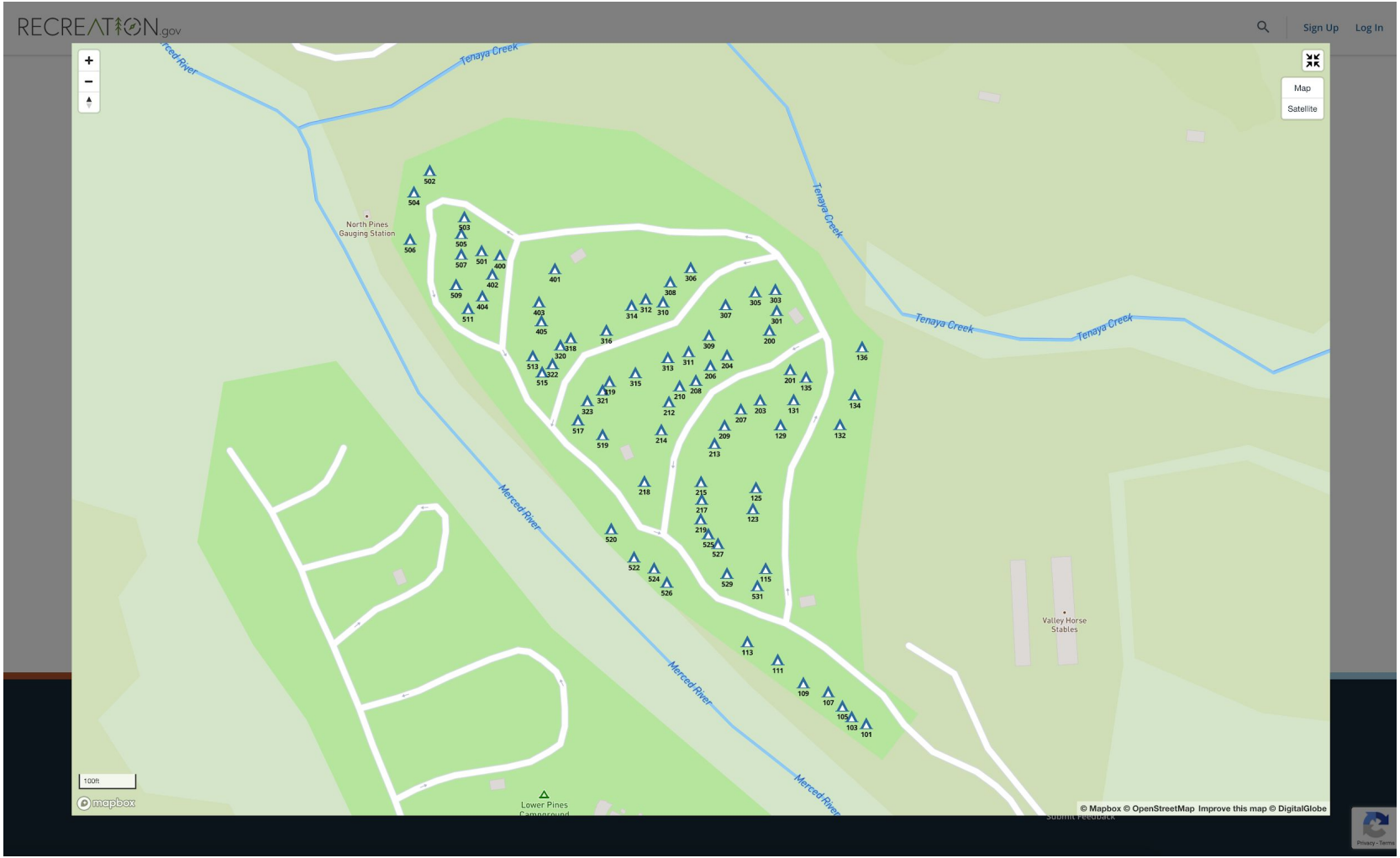
Site Search Results: 1-16 of 16 Previous | Next

Matching Sites	Zoom to: Full Facility | All Matching Campsites
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 LOOP C CAMPSITES WITH RAMADA/PAVILION	Available online Unavailable online


TEND


N
Haystack Reservoir
llow Group Site
iper Group Campsite
ttonwood Group Si


Create Daycation flavor and pu
Campground Processor
localhost:8000/campground/?id=70003#17/46.08594/-115.51146
< OHARA, ID (Not Georeferenced)
Georeference
Note
Selway River
Find a Location
BASEMAP
Mapbox Hybrid
Change
SELWAY RD
SELWAY RD
Geocoding by Esri | © Mapbox © OpenStreetMap contributors


RECREATION.gov
Sign Up
Log In
Tenaya Creek
Merced River
North Pines Gauging Station
Lower Pines Campground
Valley Horse Stables
Map
Satellite
100ft
mapbox
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