



PLAN To The MAX

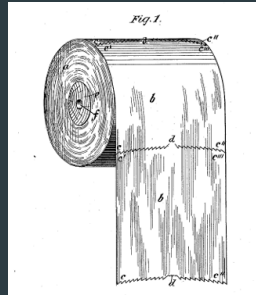
MSHCP Web Mapper

John Ellis, GISP - Desert Conservation Program
2025 Clark County MSHCP Symposium

THE IMPERATIVE:

- ▶ Assess habitat impacts
- ▶ Accurate tracking of habitat 'take'
- ▶ Single agreed upon approach

WHY?

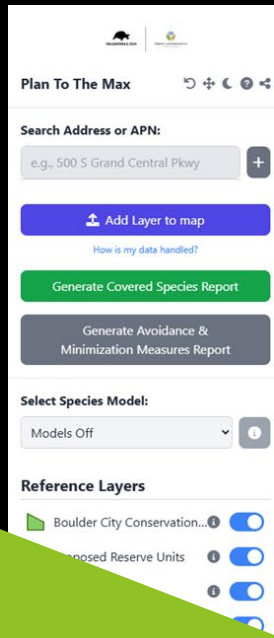


- ▶ Stretch conservation dollars further

Our Solution: 'Plan Max'

- ▶ User-friendly
- ▶ Project Specific
 - ▶ Covered species habitats
 - ▶ Habitat take analysis
 - ▶ Avoidance & Minimization Measures
- ▶ Conservation and development demands clear, actionable ecological data.

VOLUNTEER TO THE **MAX**
LEARN TO THE **MAX**
EXPLORE TO THE **MAX**
BUILD TO THE **MAX**



A Powerful, User-Friendly Mapping Application

DEMO

:(Just kidding

Your PC ran into a problem and needs to restart. We're just collecting some error info, and then we'll restart for you.

20% complete



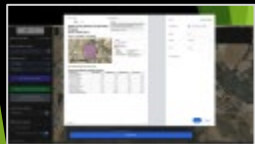
For more information about this issue and possible fixes, visit <https://www.windows.com/stopcode>

If you call a support person, give them this info:

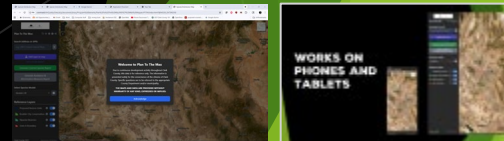
Stop code: CRITICAL_PROCESS_DIED

DEMO

Screen Shots



Live Demo



8/14/25, 2:41 PM

Species Habitat Report



Clark County Desert Conservation Program Species Habitat Report

Disclaimer

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THE MAPS AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED.

APN(s): 19121000001, 19121000002



Legend

Selected Parcels

Zone A Boundary

Zone A Boundary

Location 2 selected parcel(s)

Total Area 649.18 Acres

Report Generated August 14, 2025 at 2:41:14 PM PDT (System Time)

No intersecting reference layers found.

Intersecting Species Habitat Summary:

Species Name	Optimal Acres	Suitable Acres	Marginal Acres	Total Acres
Banded Gila Monster	0.00	0.00	0.52	0.52
Bendires Thrasher	0.00	65.00	99.11	164.10
Desert Pocket Mouse	0.00	0.00	133.32	133.32
Le Contes Thrasher	392.43	256.75	0.00	649.18
Loggerhead Shrike	314.04	335.14	0.00	649.18
Mojave Desert Tortoise	0.00	649.18	0.00	649.18
Monarch Butterfly	0.00	0.00	8.64	8.64
Western Burrowing Owl	101.83	408.80	49.40	560.03
White Margined Beardtongue	0.59	408.06	54.97	463.63

about:blank

1/1

Print

1 sheet of paper

Destination

Microsoft Print to PDF

Pages

All

Layout

Portrait

Color

Color

More settings

Print

Cancel

Print Report

SCENARIO 2



Plan To The Max



Search Address or APN:

e.g., 500 S Grand Central Pkwy



↑ Add Layer to map

How is my data handled?

Generate Covered Species Report

Generate Avoidance &
Minimization Measures Report

Select Species Model:

Models Off



Reference Layers

Boulder City Conservation...

Riparian Reserves

Proposed Reserve Units

Zone A Boundary



Found Parcel

🔍 Zoom to

APN: 17933301003



Plan To The Max



Search Address or APN:

e.g., 500 S Grand Central Pkwy



Add Layer to map

[How is my data handled?](#)

Generate Covered Species Report

Generate Avoidance &
Minimization Measures Report

Select Species Model:

Models Off



Reference Layers

- Selected Parcels
- Boulder City Conservation...
- Riparian Reserves
- Proposed Reserve Units
- Zone A Boundary

Clark County DCP

Attributions & Version

Name	Date modified	Type	Size
photos	8/14/2025 2:54 PM	File folder	
Hederson_Basin.kmz	8/14/2025 10:20 AM	KMZ	2 KB

File name:

Custom Files (*.zip;*.kml;*.kmz)

Open

Cancel





Plan To The Max



Search Address or APN:

e.g., 500 S Grand Central Pkwy



Analyze User Loaded Shapes



↑ Add Layer to map



[How is my data handled?](#)

Generate Covered Species Report

Generate Avoidance &
Minimization Measures Report

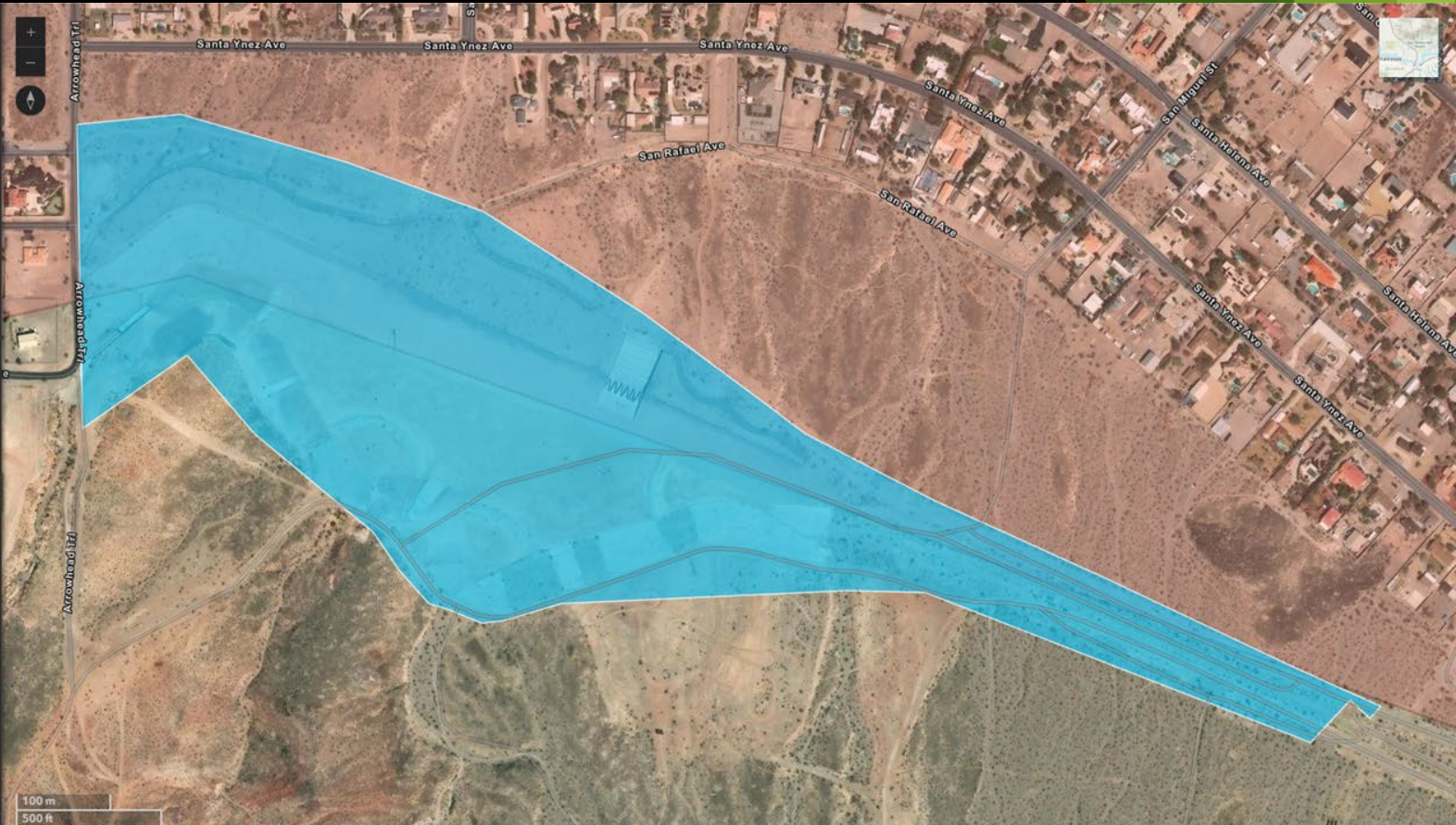
Select Species Model:

Models Off



Reference Layers

-  Boulder City Conservati... 
-  Riparian Reserves 
-  Proposed Reserve Units 
-  Zone A Boundary 





Plan To The Max

Search Address or APN:

e.g., 500 S Grand Central Pkwy

Selected Parcels

17933411003

Analyze User Loaded Shapes



Add Layer to map

How is my data handled?

Generate Covered Species Report

Generate Avoidance & Minimization Measures Report

Select Species Model:

Models Off

Reference Layers

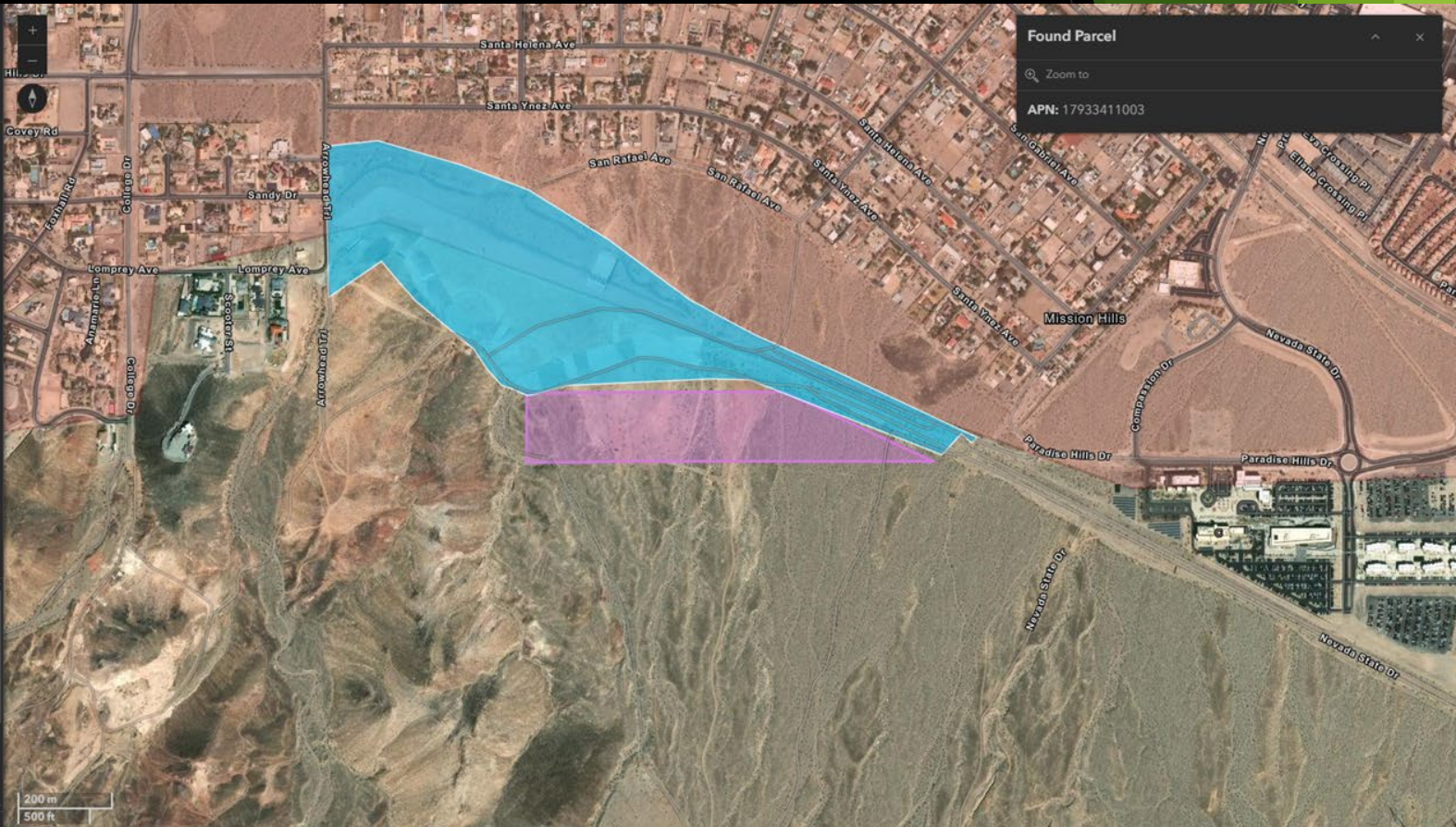
Selected Parcels

Boulder City Conservati...



Clark County DCP

Attributions & Version



Found Parcel

Zoom to

APN: 17933411003

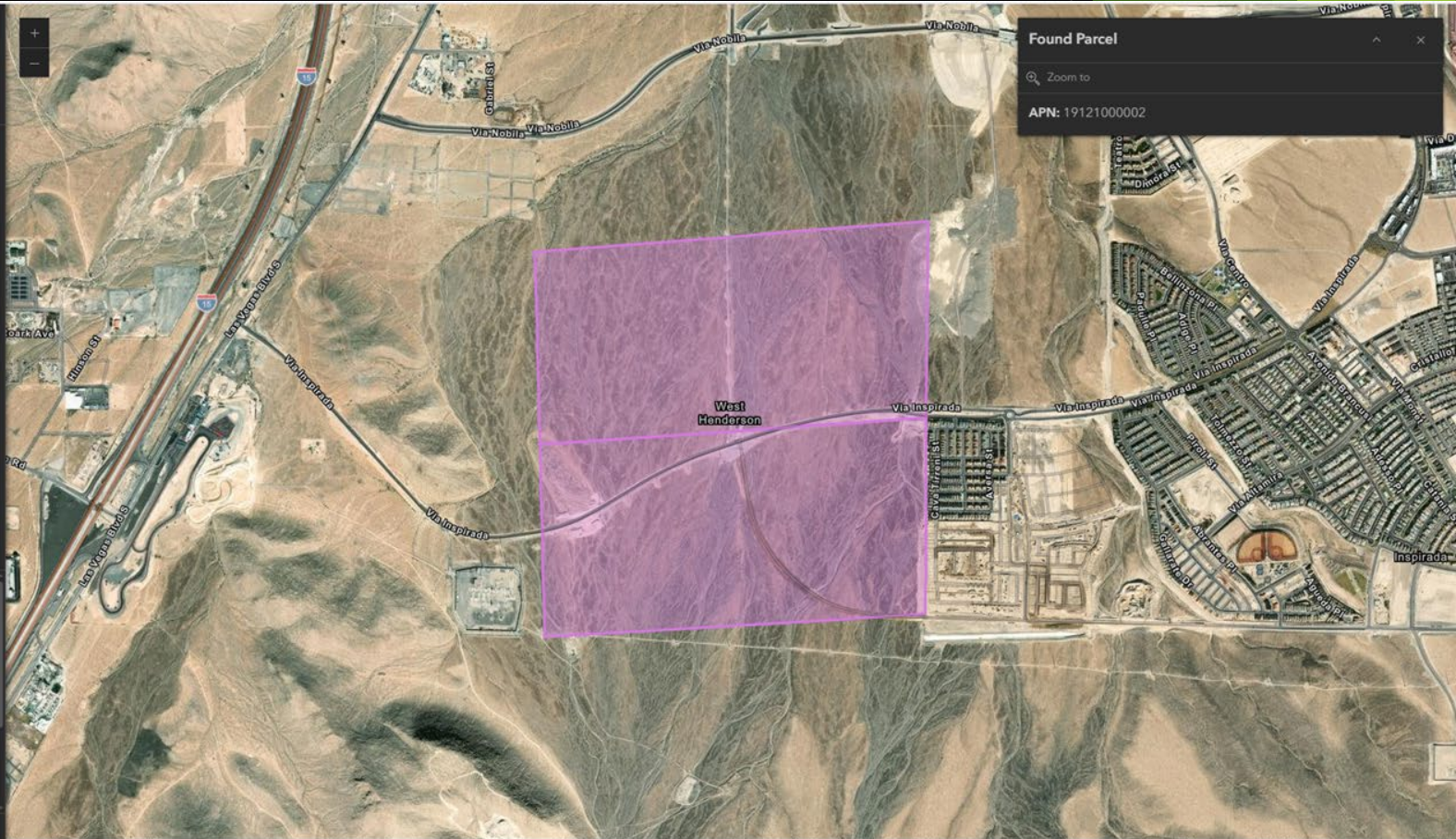
Models Off

- Banded Gila Monster
- Bells Vireo
- Bendires Thrasher
- Blue Diamond Cholla
- Desert Pocket Mouse
- Eastern Joshua Tree
- Gilded Flicker
- Golden Eagle
- Las Vegas Bearpoppy
- Las Vegas Buckwheat
- Le Contes Thrasher
- Loggerhead Shrike
- Mojave Desert Tortoise
- Mojave Poppy Bee
- Monarch Butterfly
- Pahrump Valley Buckwheat
- Ridgways Rail
- Silverleaf Sunray
- Southwestern Willow Flycatcher

Models Off

Reference Layers

- ☒ Selected Parcels
- ☒ Proposed Reserve Units



Found Parcel

Zoom to

APN: 19121000002



Plan To The Max



Search Address or APN:

e.g., 500 S Grand Central Pkwy



Selected Parcels



19121000001



19121000002



↑ Add Layer to map

How is my data handled?

Generate Covered Species Report

Generate Avoidance &
Minimization Measures Report

Select Species Model:

Mojave Desert Tortoise



Mojave Desert Tortoise

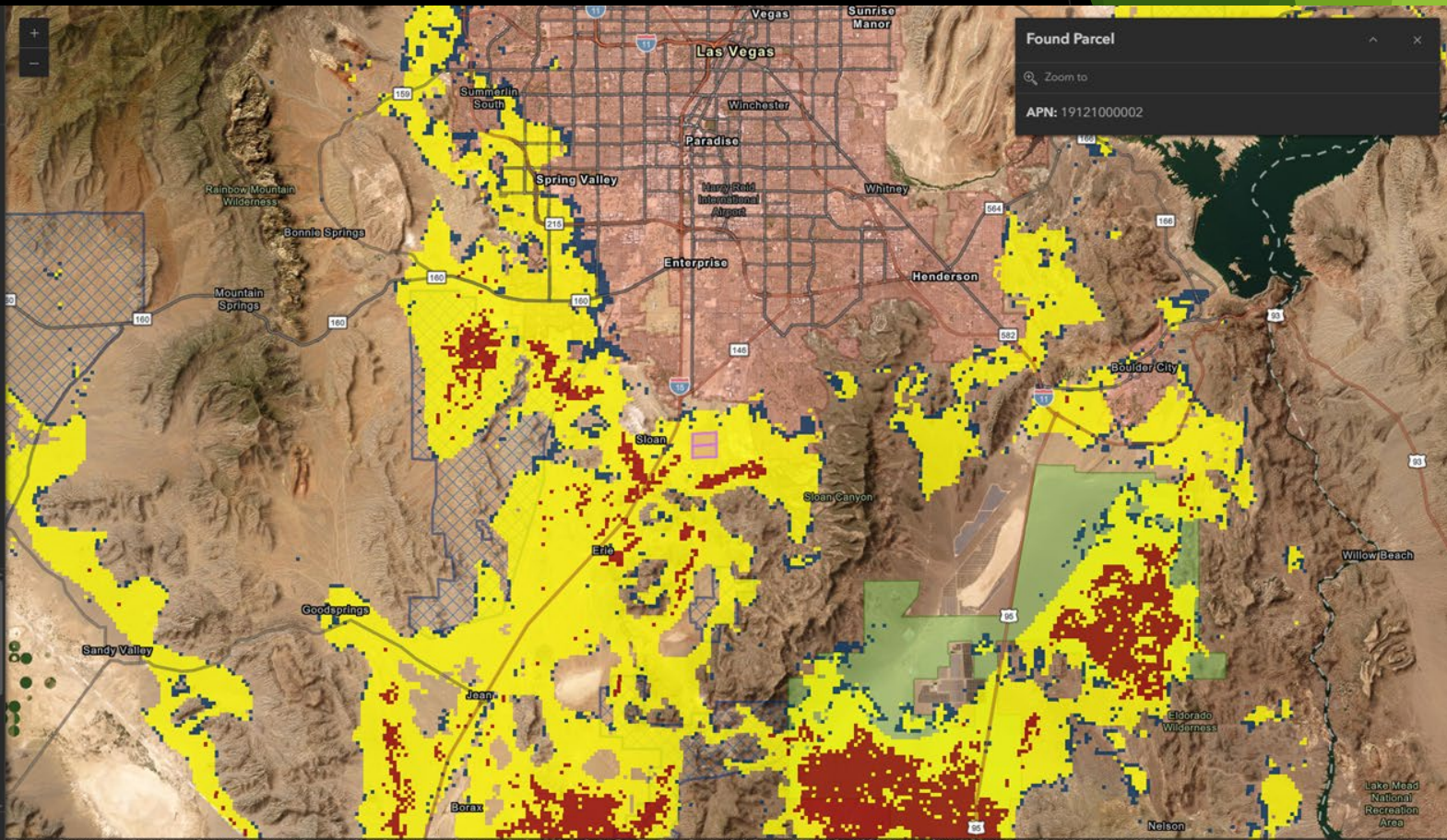


1. Optimal 2. Suitable 3. Marginal

Reference Layers

Clark County DCP



Attributions & Version



Found Parcel

Zoom to

APN: 19121000002



Plan To The Max

Search Address or APN

e.g., 500 S Grand Central Plaza

+

Selected Parcels

19121000001

19121000002

Add Layer to map

View a Map Only Worksheet

Generate Covered Species Report

Generate Avoidance & Minimization Measures Report

Select Species Model:

Mojave Desert Tortoise

Mojave Desert Tortoise

1. Optimal

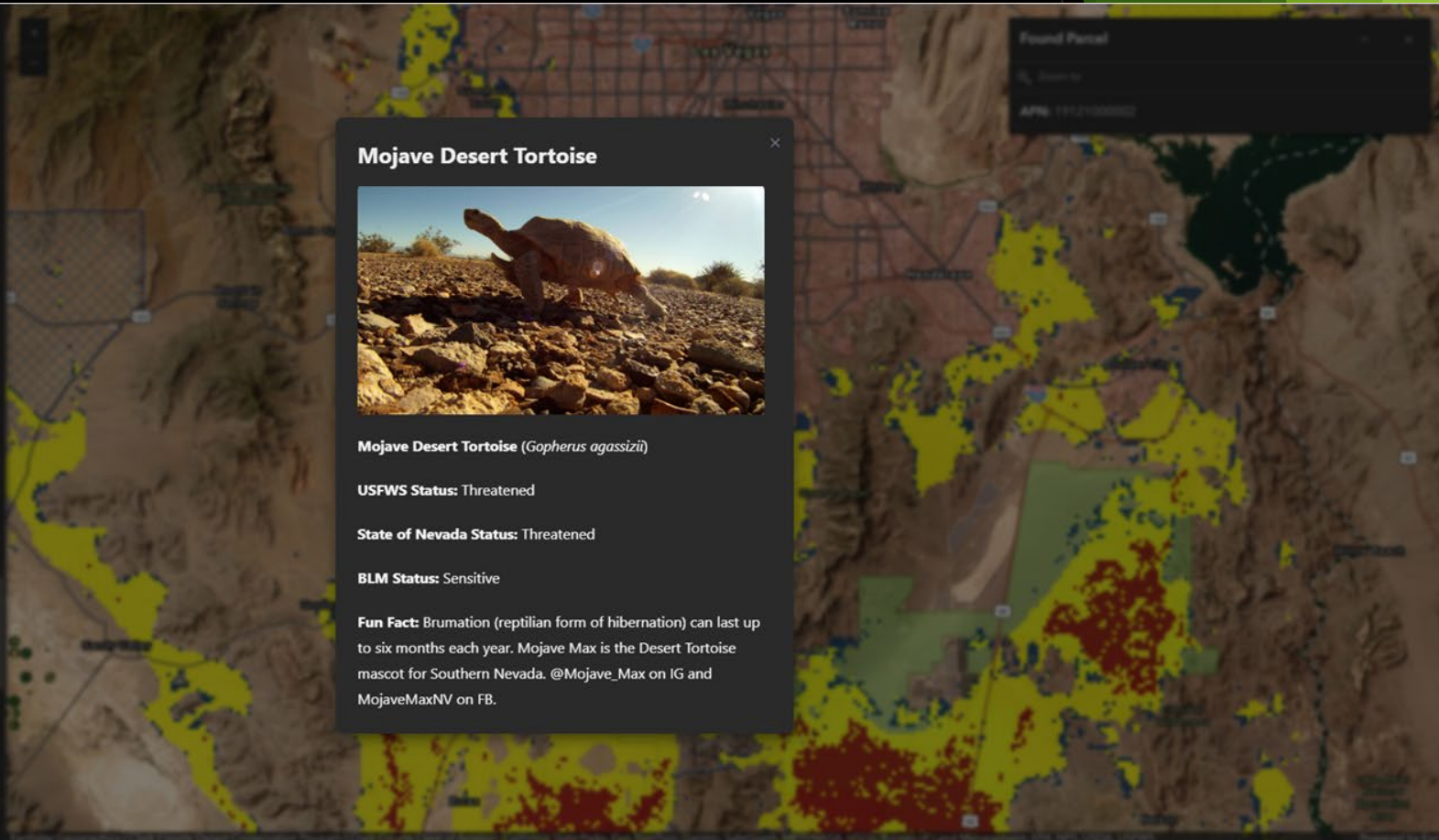
2. Suitable


3. Marginal

Reference Layers

Clark County DCP

Attribution & Terms





Plan To The Max

Search Address or APN:
e.g., 500 S Grand Central Pkwy

Selected Parcels
19121000001
19121000002

Add Layer to map
How is my data handled?

Generate Covered Species Report

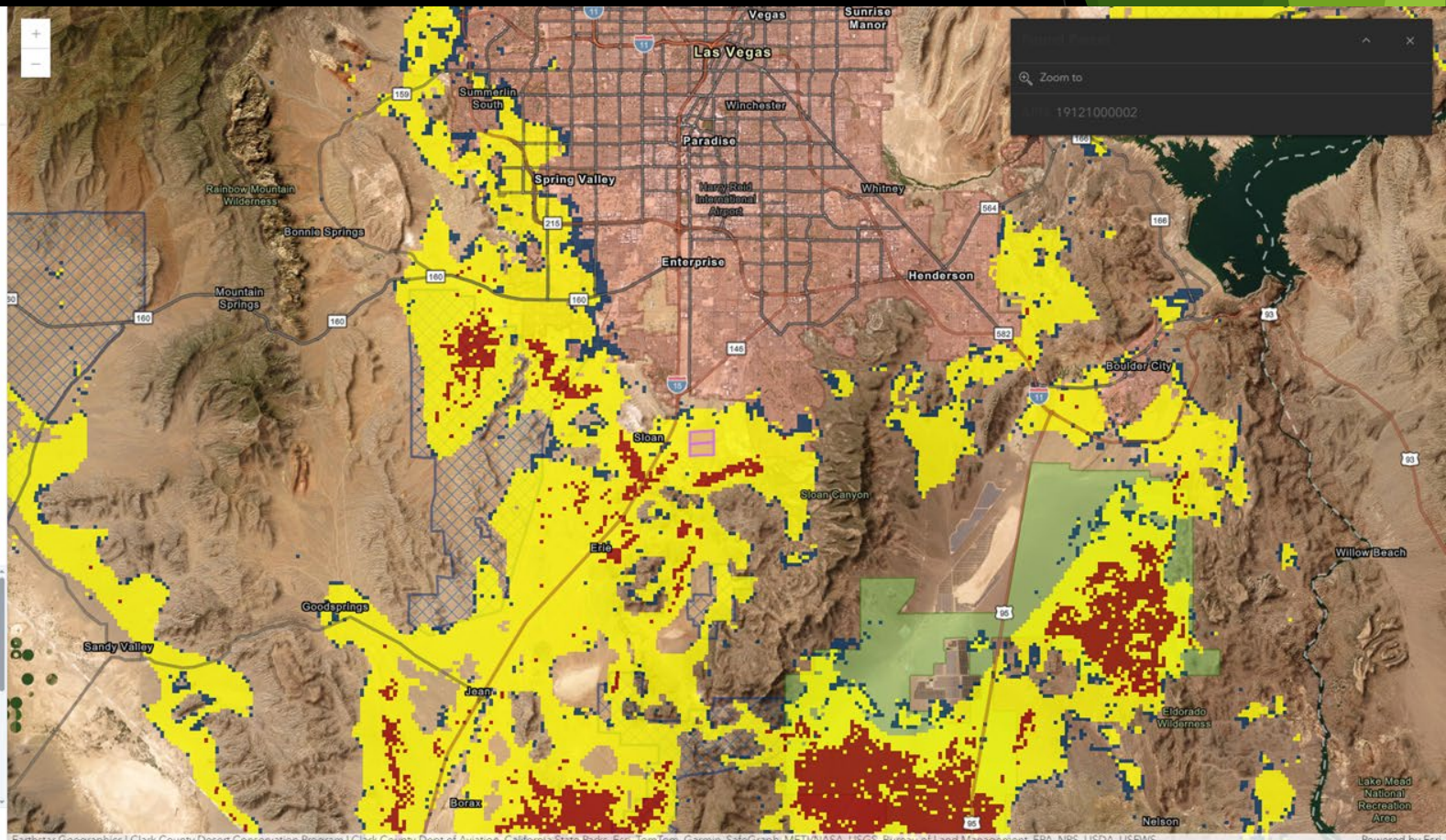
Generate Avoidance & Minimization Measures Report

Select Species Model:
Mojave Desert Tortoise

Mojave Desert Tortoise
1. Optimal 2. Suitable 3. Marginal

Reference Layers
Clark County DCP

Attributions & Version



Plan To The Max

Search Address or APN:
e.g., 100 S Grand Central Plaza

Selected Parcels

19121000001

19121000002

Add Layer to map

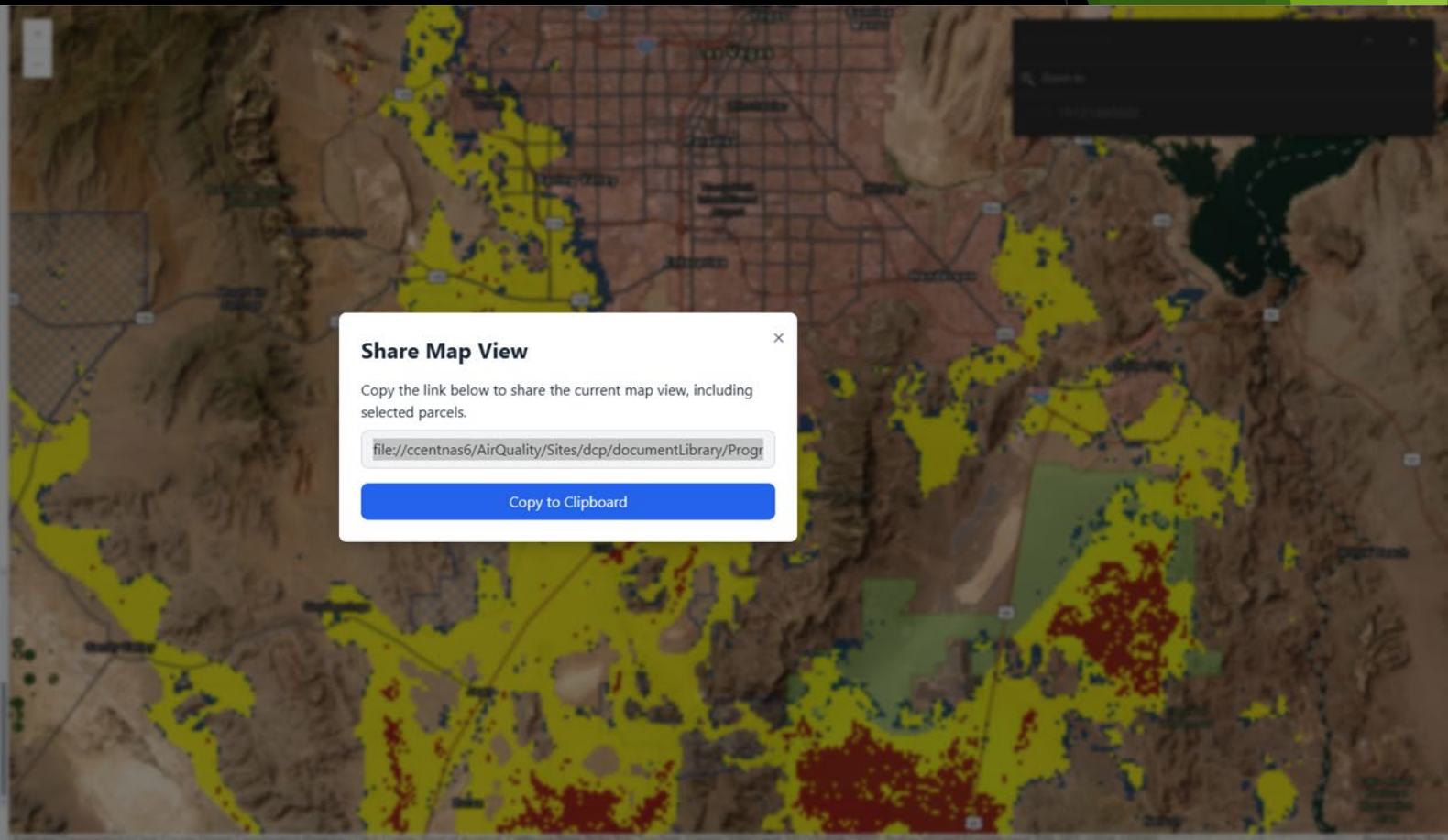
Generate Covered Species Report

Generate Avoidance & Mitigation Measures Report

Reference Layers

- Selected Parcels
- Proposed Reserve Units
- Boulder City Conservati...
- Riparian Reserves
- Zone A Boundary

Clark County DCP

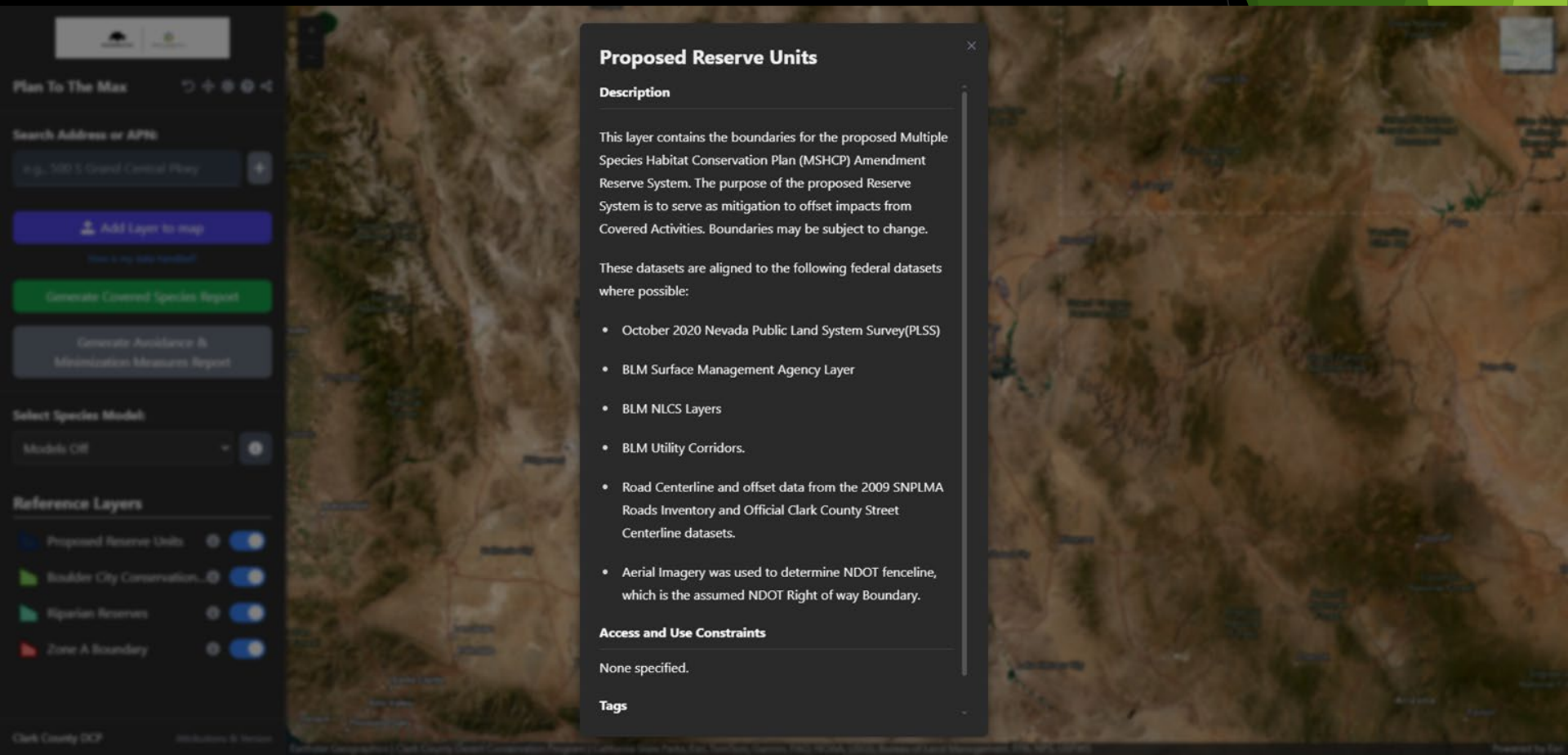


Share Map View

Copy the link below to share the current map view, including selected parcels.

file:///c:/centnas6/AirQuality/Sites/dcp/documentLibrary/Progr

Copy to Clipboard



Proposed Reserve Units

Description

This layer contains the boundaries for the proposed Multiple Species Habitat Conservation Plan (MSHCP) Amendment Reserve System. The purpose of the proposed Reserve System is to serve as mitigation to offset impacts from Covered Activities. Boundaries may be subject to change.

These datasets are aligned to the following federal datasets where possible:

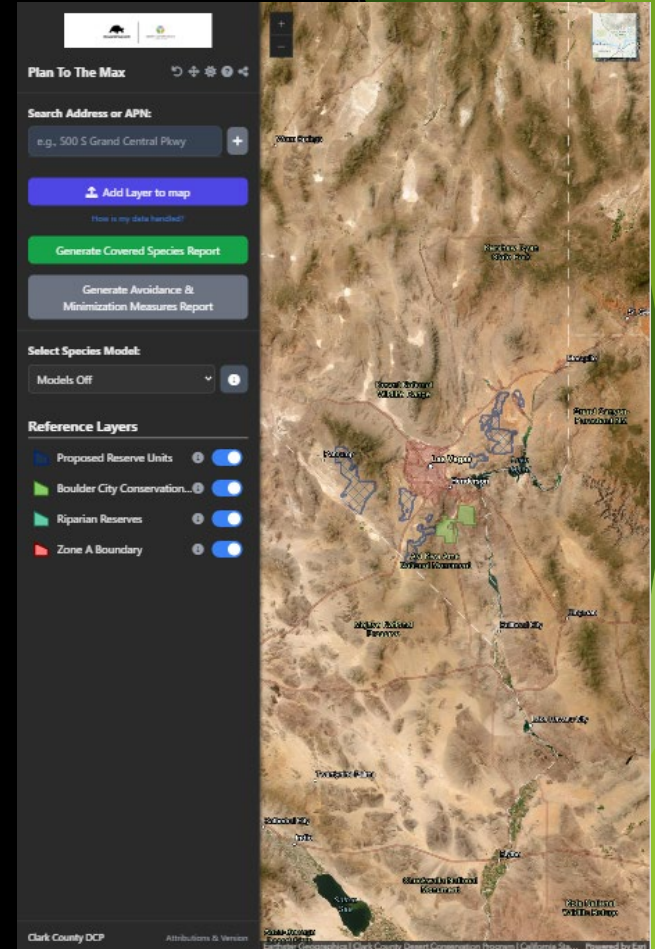
- October 2020 Nevada Public Land System Survey(PLSS)
- BLM Surface Management Agency Layer
- BLM NLCS Layers
- BLM Utility Corridors.
- Road Centerline and offset data from the 2009 SNPLMA Roads Inventory and Official Clark County Street Centerline datasets.
- Aerial Imagery was used to determine NDOT fenceline, which is the assumed NDOT Right of way Boundary.

Access and Use Constraints

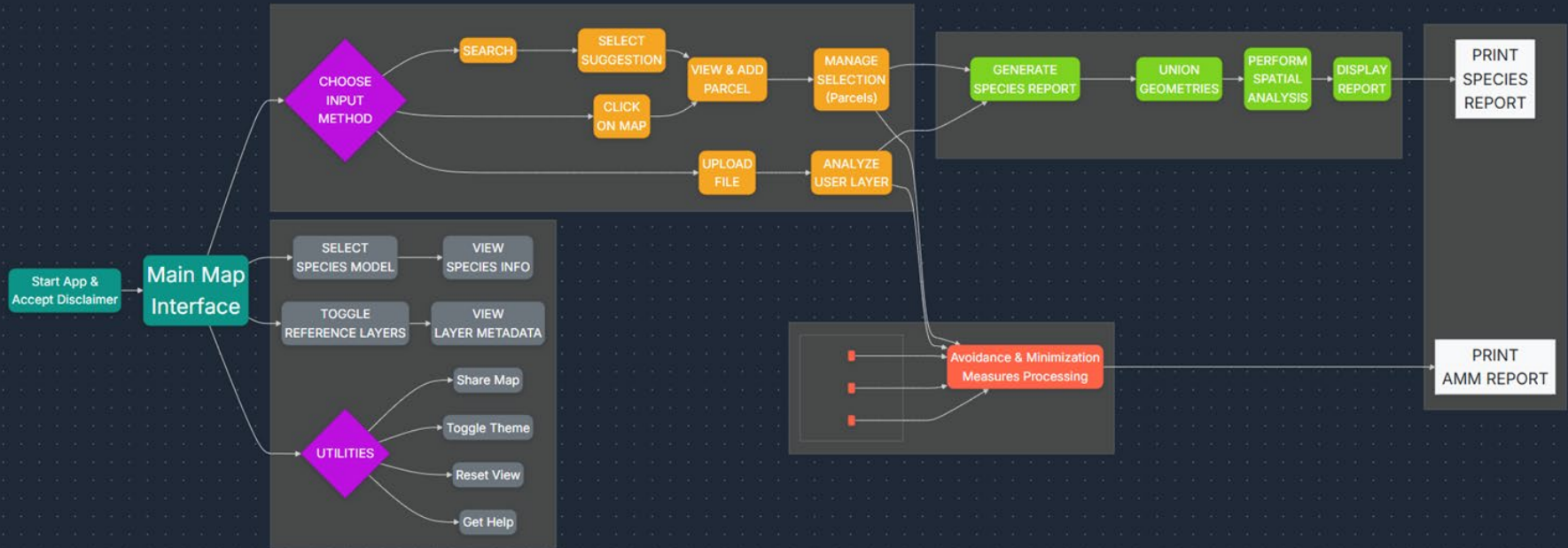
None specified.

Tags

WORKS ON PHONES AND TABLETS



Plan To The Max Workflow



Workflow: Easily Define Project Areas

Future Enhancements: A Roadmap

- ▶ Next Steps: Expanding Capabilities
 - ▶ Avoidance Minimization Report
 - ▶ Increases in performance
- ▶ Future Improvements:
 - ▶ Enhanced Reporting
 - ▶ User Feedback Implementation
 - ▶ Increased Automation



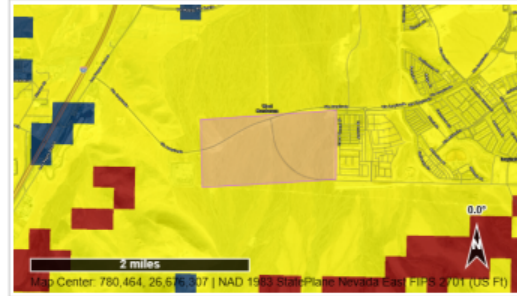
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Clark County Desert Conservation Program Species Habitat Report

APN(s): 19121000002



Legend

Selected Parcels

Mojave Desert Tortoise

1. Optimal 2. Suitable 3. Marginal

Zone A Boundary

Zone A Boundary

Location	1 selected parcel(s)
Total Area	322.00 Acres
Report Generated	August 14, 2025 at 11:39:12 AM PDT (System Time)

No intersecting reference layers found.

Intersecting Species Habitat Summary:

Species Name	Optimal Acres	Suitable Acres	Marginal Acres	Total Acres
Bendires Thrasher	0.00	61.47	82.33	143.80
Desert Pocket Mouse	0.00	0.00	15.44	15.44
Le Contes Thrasher	179.66	142.34	0.00	322.00
Loggerhead Shrike	111.58	210.42	0.00	322.00
Mojave Desert Tortoise	0.00	322.00	0.00	322.00
Western Burrowing Owl	0.00	183.45	49.40	232.85
White Margined Beardtongue	0.00	169.85	7.85	177.70

DRIVING CONSERVATION FORWARD

Strategic Investment in Conservation

- ▶ Modernizing habitat conservation
 - ▶ Accessible, Accurate, and Actionable data
 - ▶ Increased Efficiency
 - ▶ Stretching conservation dollars
- ▶ Note: This tool was developed with assistance from Artificial Intelligence, demonstrating innovative approaches to public service.

QUESTIONS & DISCUSSION

► Questions & Discussion

COMING SOON TO :
<https://maps.clarkcountynv.gov/dcp>