# Creating a CNDDB Record Search A Step-by-Step Guide



**Off-Highway Motor Vehicle Recreation Division** 

**Grants and Cooperative Agreements Program** 

2024



## Purpose of this Guide

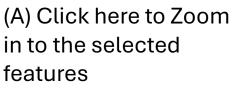
 To provide Off-Highway Motor Vehicle Recreation (OHMVR) Division Grant Applicants with step-by-step instructions on how to use the California Department of Fish and Wildlife's (CDFW) Biogeographic Information & Observation System (BIOS) 6 Public Viewer to conduct a California Natural Diversity Database (CNDDB) Record Search.

# Why do a CNDDB search?

- Is one of the <u>standardized methods recommended by CDFW</u> for searching proposed project areas for listed and/or sensitive species
  - Allows for <u>assessment of any potential risk factors</u> to special status species or sensitive habitats from proposed project activities.
- Provides valuable information for answering questions within a OHMVR Division Grant Application:
  - Habitat Management Plans (HMP)
  - HMP Part 1
    - Question #2
    - ITEM #2 Justifications
  - Environmental Review Data Sheets (ERDS)
- Helps identify which sensitive resources (Wildlife, Plants, Habitats, etc.) have been documented and confirmed in or near a proposed project area.

# **Before You Start**

- CNDDB's BIOS 6 Public Viewer is <u>completely free</u> to use and <u>does not</u> require a CNDDB Subscription or a CDFW Login.
- Is a great resources management tool for understanding what sensitive species and/or resources have been known to occur within or near a proposed project area.
- Google Chrome and Mozilla Firefox are the preferred web browsers for using BIOS 6 for CNDDB searches.
- This guide will use colored boxes, arrows, and lettered steps to help direct you to where on the screen a specific step applies and in what order.
   (B) Click here
  - For Example:





to download your species table

#### Step 1 (A,B): Access the BIOS 6 Public Viewer

(A) You can access CDFW's BIOS Web Page by either clicking on this link or typing in your web browser's address bar:

https://wildlife.ca.gov/data/BIOS

You can also type "*BIOS* 6" into your internet search browser and it should be the first link that pops up in your search results.

(B) Once there, click on the blue "*BIOS 6 Viewer* (*Public & Secure*)" button located here on the page.

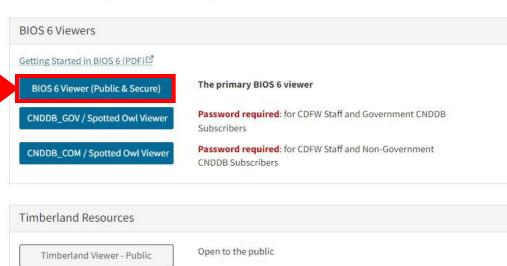
<i>Cl</i> eov				Login About CDFW	Contact INHUNCED BY C	ioogle Q 🕀	
California Department of Fish and Wildlife	Ame Home	Fishing	Hunting	Licensing	<b>S</b> Conservation	Learning	



#### Biogeographic Information and Observation System (BIOS)

BIOS is a system designed to enable the management, visualization, and analysis of biogeographic data collected by the California Department of Fish and Wildlife and its Partner Organizations. In addition, BIOS facilitates the sharing of those data within the BIOS community. BIOS integrates GIS, relational database management, and ESRI's ArcGIS Server technology to create a statewide, integrated information management tool that can be used on any computer with access to the Internet. For additional information about the CNDDB and Spotted Owl Observations Database, visit their web pages. A full BIOS 6 User Guide (PDF)<sup>[2]</sup> is available for use, as well as a condensed version of basic functions to get started (PDF)<sup>[2]</sup>. If you have questions about BIOS 6, you can submit them to BIOS@wildlife.ca.gov.

#### BIOS Viewers - Use Edge<sup>□</sup> or Chrome<sup>□</sup> for best performance.



BIOS 🥖

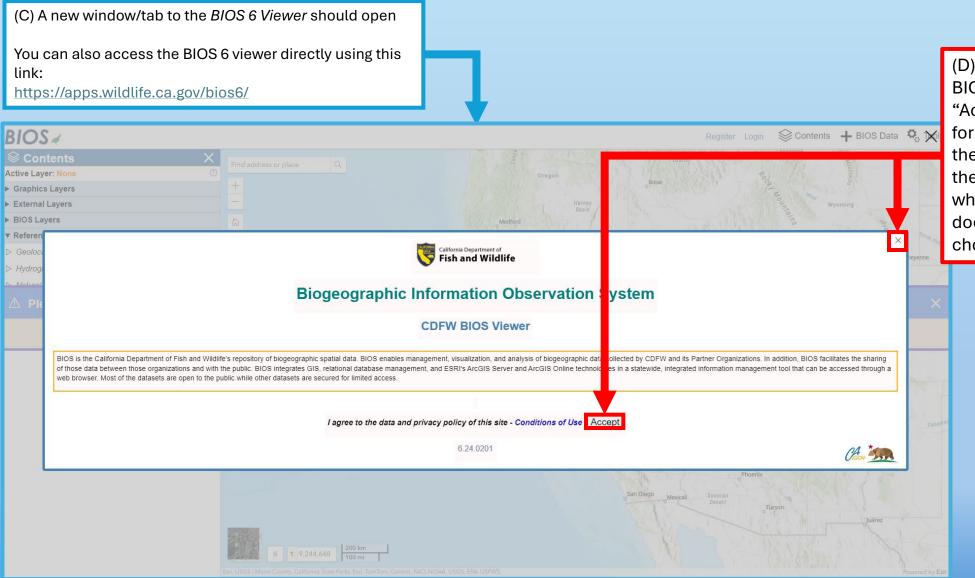
#### BIOS

#### About BIOS

- BIOS / CNDDB Training and Tutorials
- Data
  - Public Datasets
  - Contract Language
  - Submitting Data to BIOS
  - How are CNDDB and BIOS related?
  - Field Survey Protocols
  - Citing BIOS Layers
- Partners

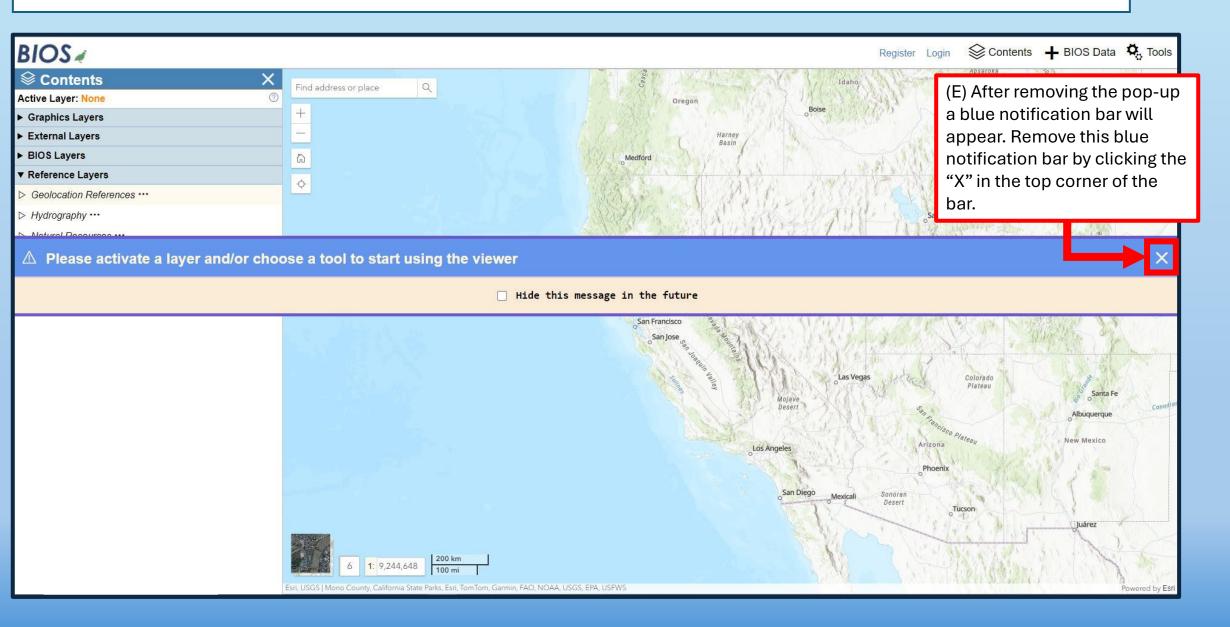
#### Contact BIOS Staff

#### Step 1 (C,D): Access the BIOS 6 Public Viewer

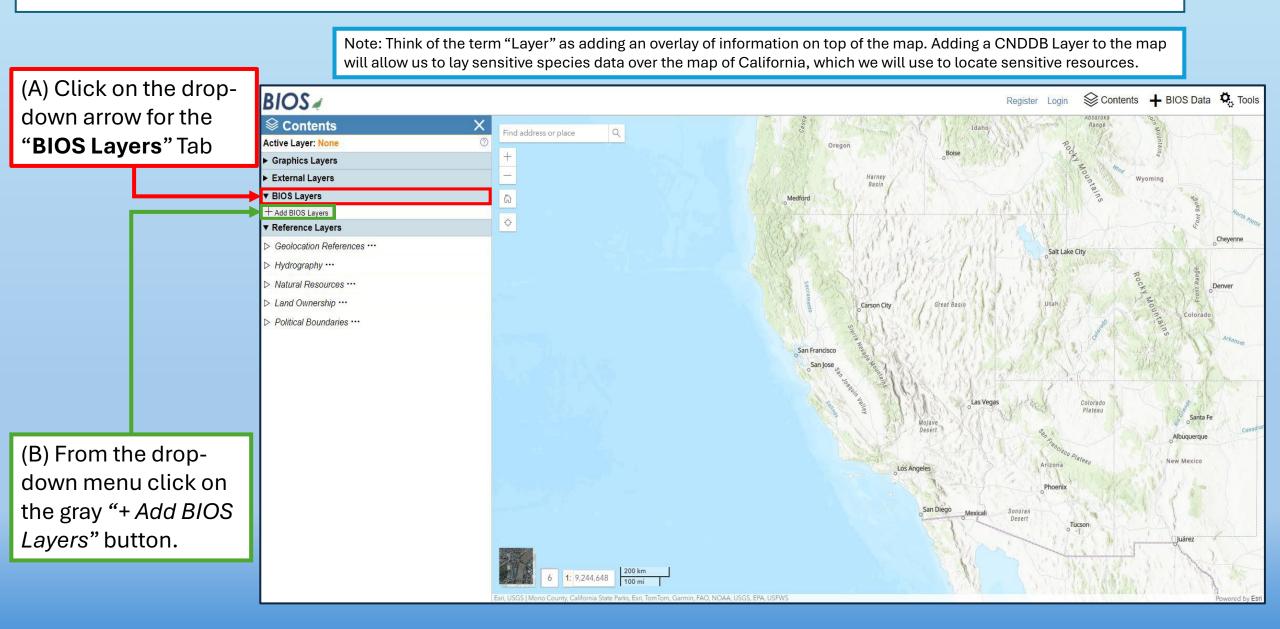


(D) Once the window is opened a BIOS pop-up will appear. Either "Accept" the *Conditions of Use* for the *BIOS 6 Viewer* or close out the pop-up by clicking the "X" in the top right corner. Click whichever one you want as it does not matter which one you choose.

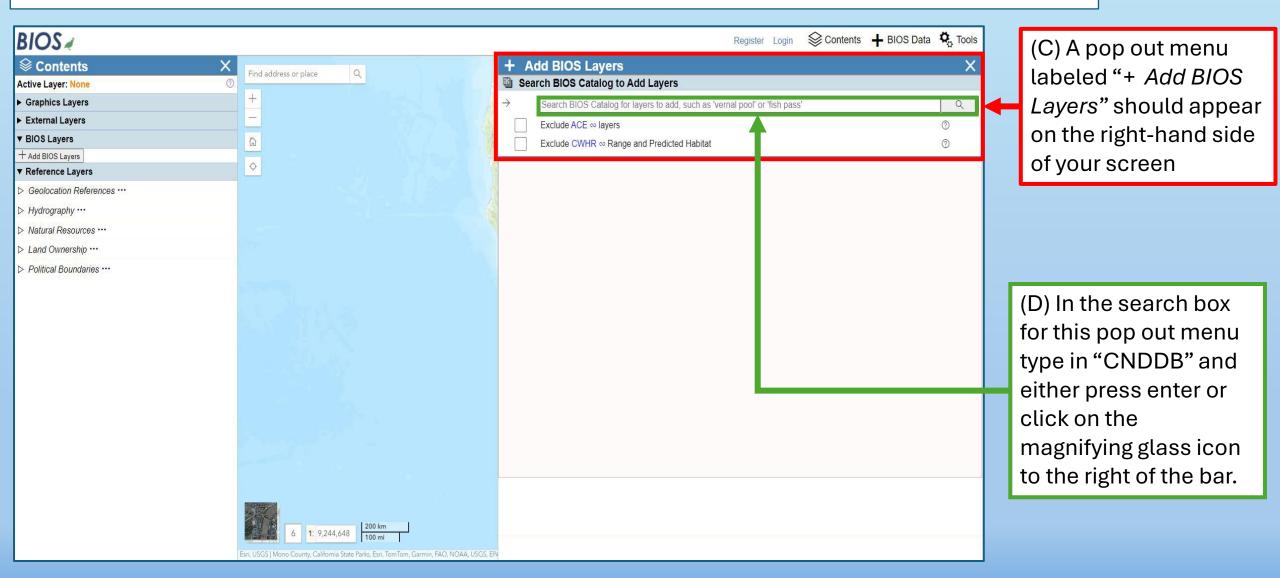
### Step 1 (E): Access the BIOS 6 Public Viewer



### Step 2 (A,B): Adding a CNDDB Layer to the Map



#### Step 2 (C,D): Adding a CNDDB Layer to the Map



### Step 2 (E,F,G): Adding a CNDDB Layer to the Map

BIOS Contents Active Layer: None Graphics Layers External Layers HOS Layers Add BIOS Layers	Find address or place + - •	Register       Login       Search Bios Catalog to Add Layers         →       CNDDB	BIOS Data 🎝 Tools	(E) Once you type in "CNDDB" and click on the magnifying glass. A list of results should pop up
Reference Layers     Geolocation References ····		Add DSID Dataset Name	Pub Feature Type 🔺	below.
Hydrography ····		1 + 2852 CNDDB-tracked Elements by County [ds2852]	© polygon⊠	
Natural Resources ····		2 2853_CNDDB-tracked Elements by Quad Ids28531	A polygon M	
Land Ownership ····		3 40 1023 Acorn Woodpecker Habitat Model for NSNF Connectivity CDFW [ds1023]		
▷ Political Boundaries ····		4       1231       Amargosa River Pupfish Range - FSSC [ds1231]         5       1024       Arboreal Salamander Habitat Model for NSNF Connectivity - CDFW [ds1024]         6       2937       Bald Eagle Observations Generalized [ds2937]         7       1008       Black Bear Habitat Model for NSNF Connectivity - CDFW [ds1008]         8       1031       Black-tailed Jackrabbit Habitat Model for NSNF Connectivity - CDFW [ds1031]         9       3079       Bumble Bee Watch Observations - California - CABBA [ds3079]         10       1036       California Kangaroo Rat Habitat Model for NSNF Connectivity - CDFW [ds1036]         10       1032       California Quail Habitat Model for NSNF Connectivity - CDFW [ds1032]	Image: Constraint of the second s	(F) From the list find the one labeled "CNDDB-tracked Elements by Quad". It is usually 2 <sup>nd</sup> on the list.
N. t. D. c	6 1: 9,244,648 200 km 100 mi Esri, USGS I Mono County, California State Parks, Esri, TomTom, Garmin, FAO, NOAA, US	12 13 + 1035 Coast Horned Lizard Habitat Model for NSNF Connectivity - CDFW [ds1035]	Image: Contract of the second sec	(G) Click on the " <b>+</b> " button to the left of it to add it to the map.

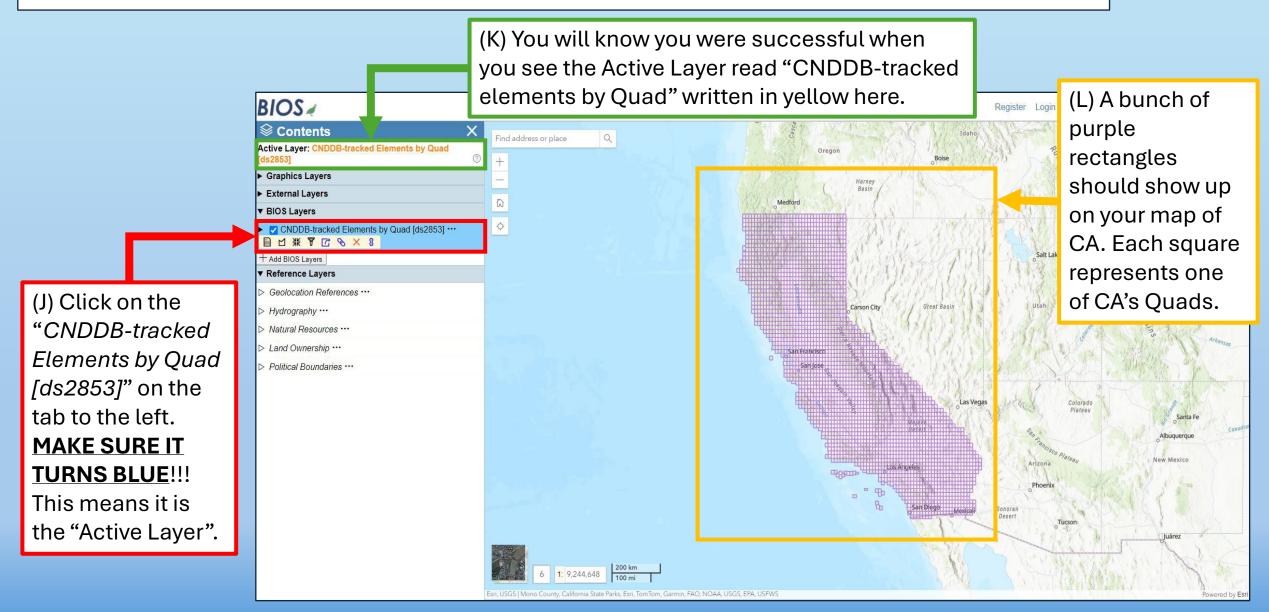
**Note:** Be sure to select the **<u>BY QUAD</u>** option as this is the most accurate way to map find resources within or adjacent to your project area. The other option "By County" will give you every sensitive resource found within the county where your project occurs and possibly some adjacent counties depending on your search/project area.

#### Step 2 (H,I): Adding a CNDDB Layer to the Map

(H) A new tab should have appeared under the dropdown menu on the left-hand side of the screen labeled *"CNDDB-tracked Elements by Quad [ds2853]"*.

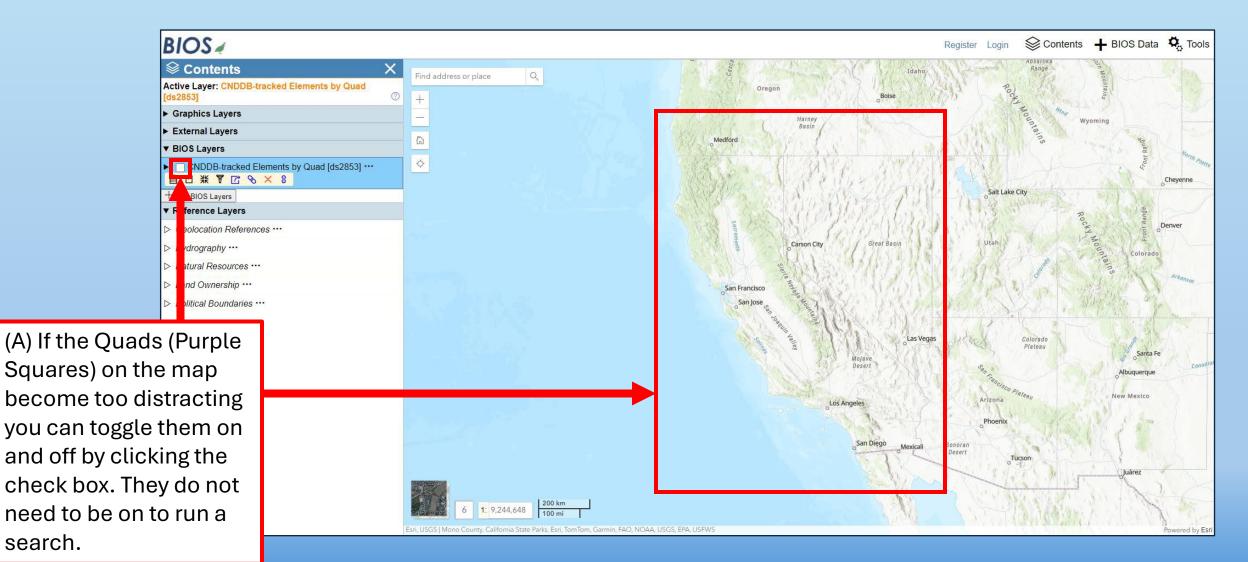
BIOS					Register Login	Secontents + BIO	S Data 🙎 Tools		
Secontents X	Find address or place		+	Ad	Id BIOS Layers		×		
Active Layer: None ⑦		۹.			rch BIOS Catalog to Add Layers				
► Graphics Layers	+		$\rightarrow$	ſ	CNDDB		Q		
► External Layers			ſ	Ъ	Exclude ACE ∞ layers		0		
▼ BIOS Layers	ŵ			٦.	Exclude CWHR on Range and Predicted Habitat		0		
CNDDB-tracked Elements by Quad [ds2853] ····		See Section 1	46 re	esults	found for "CNDDB"		200		
+ Add BIOS Layers		1. 1. 1 Por 1.	1		DSID Dataset Name	Pu	ib Feature Type 🔺		
▼ Reference Layers			1	+	2852 CNDDB-tracked Elements by County [ds2852]	0	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
▷ Geolocation References ···			34						
▷ Hydrography ···			2	~	2853 CNDDB-tracked Elements by Quad [ds2853]		polygon⊠		
▷ Natural Resources ····			3	+	1023 Acorn Woodpecker Habitat Model for NSNF Connectivity - CDFW [ds1023]	0	raster∎		
▷ Land Ownership ····			4	+	1231 Amargosa River Pupfish Range - FSSC [ds1231]	0	polygon⊠		
▷ Political Boundaries ····			5	+	1024 Arboreal Salamander Habitat Model for NSNF Connectivity - CDFW [ds1024		1000		
			6	+	2937 Bald Eagle Observations Generalized [ds2937]	0	polygon⊠		
			7	+	1008 Black Bear Habitat Model for NSNF Connectivity - CDFW [ds1008]	(I) Yo	ou can no	w clos	e the
			8	+	1031 Black-tailed Jackrabbit Habitat Model for NSNF Connectivity - CDFW [ds103	11			
			9	+	3079 Bumble Bee Watch Observations - California - CABBA [ds3079]		d Bios La		•
			10	+	1036 California Kangaroo Rat Habitat Model for NSNF Connectivity - CDFW [ds1	36] mer	nu by clic	king the	e white
	Sec. 2		11	+	1032 California Quail Habitat Model for NSNF Connectivity - CDFW [ds1032]	"X"	near the t	top of tl	he
			12	+	1033 California Thrasher Habitat Model for NSNF Connectivity - CDFW [ds1033]	mor		-	
			13	+	1035 Coast Horned Lizard Habitat Model for NSNF Connectivity - CDFW [ds1035	mer	iu		
	6 1: 9,24 Esri, USGS   Mono County, Califor	44,648 200 km 100 mi rnia State Parks, Esri, TomTom, Garmin, FAO, NOAA, USGS, E	:P4						

#### Step 2 (J,K,L): Adding a CNDDB Layer to the Map



#### Step 3 (A): Mapping the Project Area

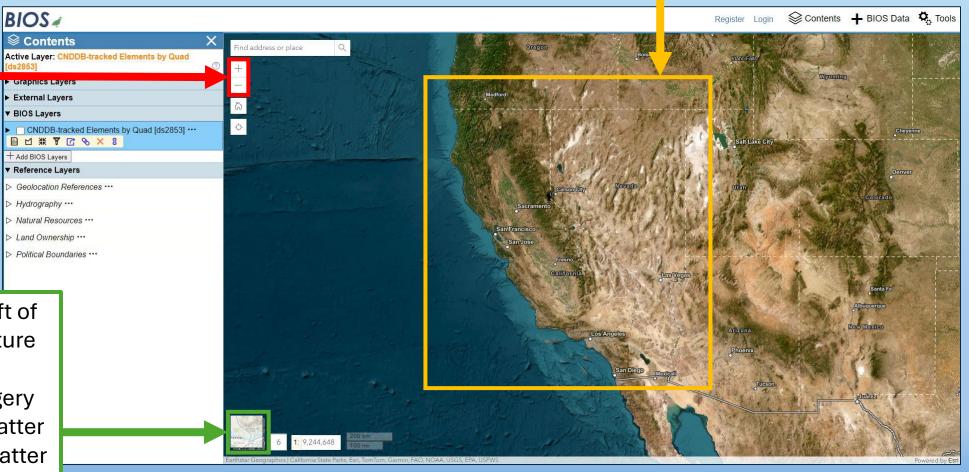
search.



### Step 3 (B,C,D): Mapping the Project Area

(D) You can grab the map and move it by clicking and dragging using your mouse cursor.

(B) Zoom in and out using either your mouse wheel or the plus and minus buttons in the top left corner of the map.



(C) Click the bottom left of the map where the picture is to switch between a topographic or an imagery basemap. It doesn't matter which is used, just a matter of preference.

### Step 3 (E,F): Mapping the Project Area

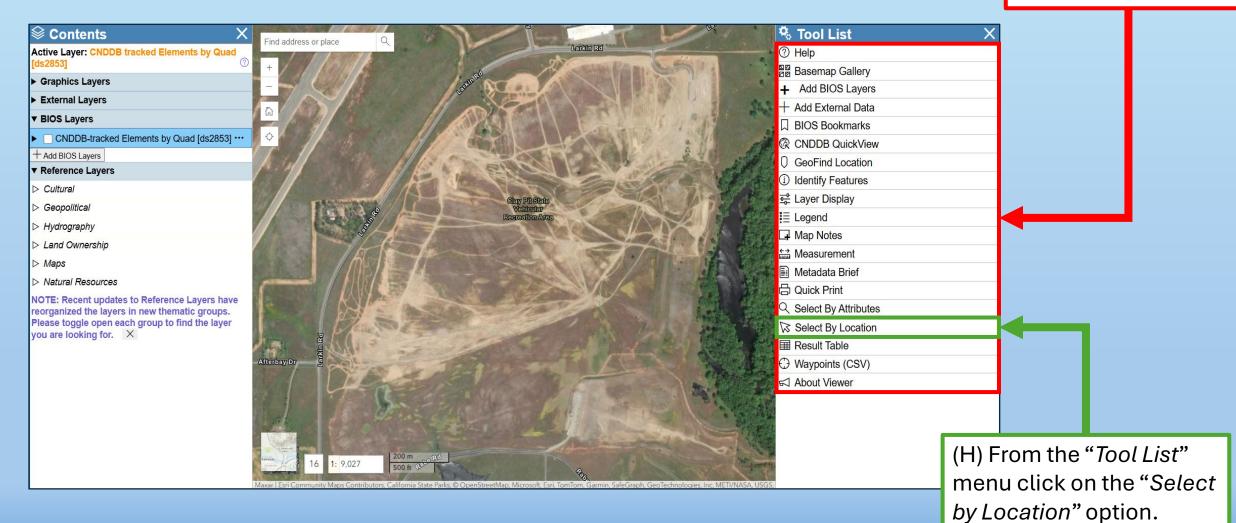
(F) Once fully zoomed inselect the "Tools" tab in thetop right corner of the screen.

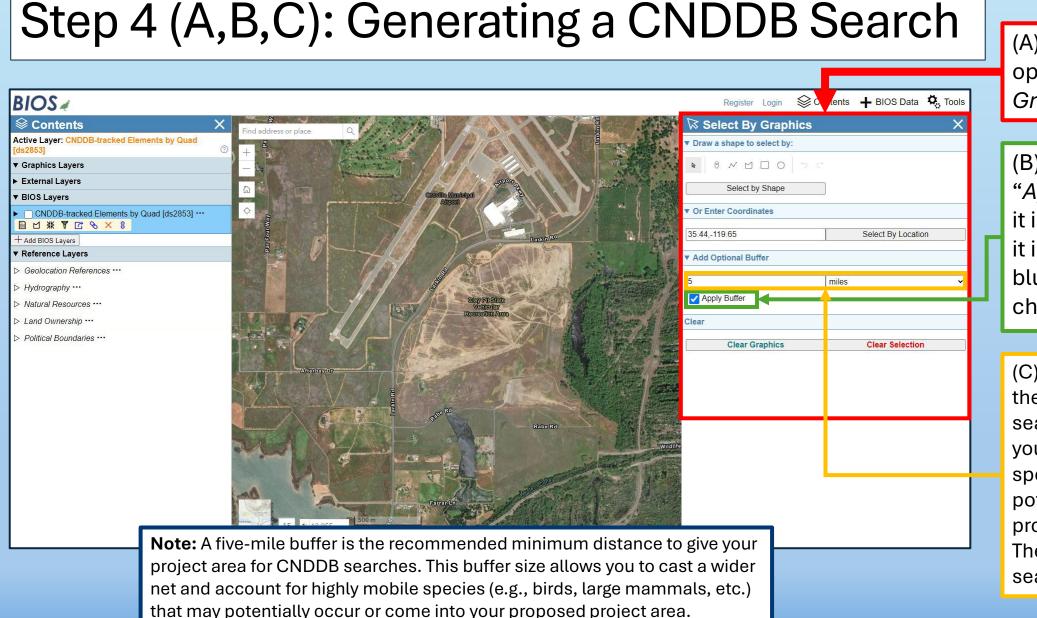
(E) Zoom in to your proposed Project Area using the tools in the top left corner and/or your computer mouse.



### Step 3 (G,H): Mapping the Project Area

#### (G) This will open up the "Tool List" Menu.



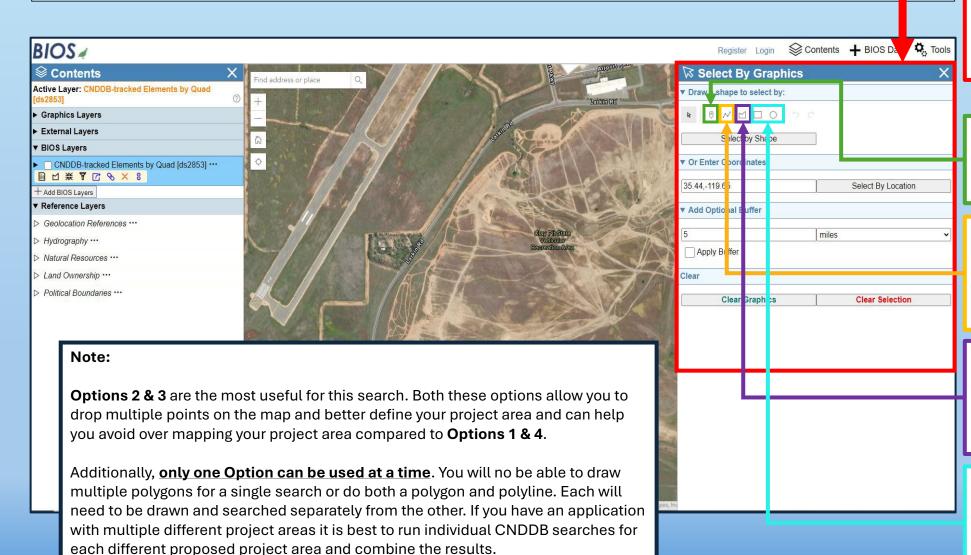


(A) Clicking this will open the "Select By Graphics" menu.

(B) First toggle the *"Apply Buffer"* so that it is on. You will know it is on when the box is blue with a white checkmark.

(C) Next select the size of the buffer area for your search. A buffer allows you to account for any species that can potentially enter your proposed Project area. The standard for CNDDB searches is 5 miles.

#### Step 4 (D): Generating a CNDDB Search



(D) There are a number of options for mapping your proposed Project Area. Select whichever one you think would be best suited to map your proposed project area. The options are as follows:

**Option 1:** Point – Drops a single point at a single location. (Not recommended)

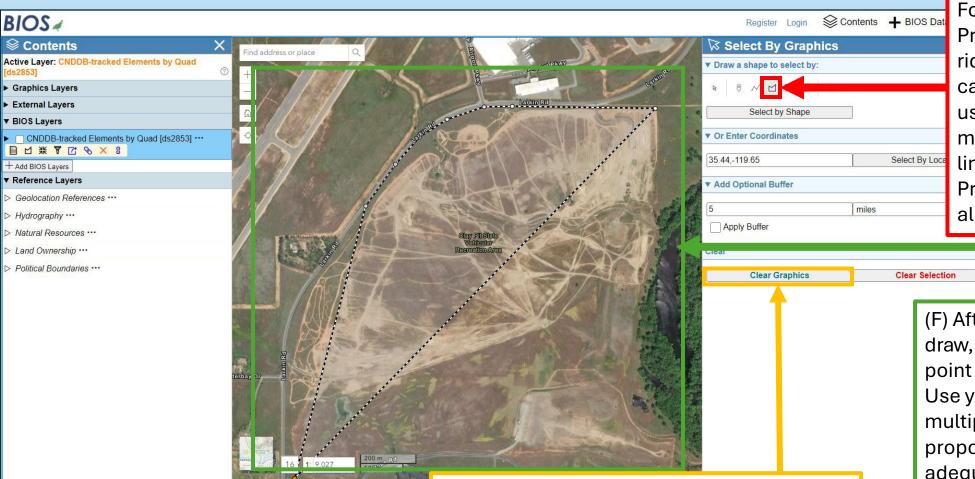
**Option 2:** Polyline – allows you to draw a single line with multiple points. (Recommended for trails)

**Option 3:** Polygon – allows you draw any shape (Recommended for large nonlinear project areas).

**Option 4:** Square and Circle – Allows you to drop a large square or circle on the map (Not recommended).

#### Step 4 (E,F,G): Generating a CNDDB Search

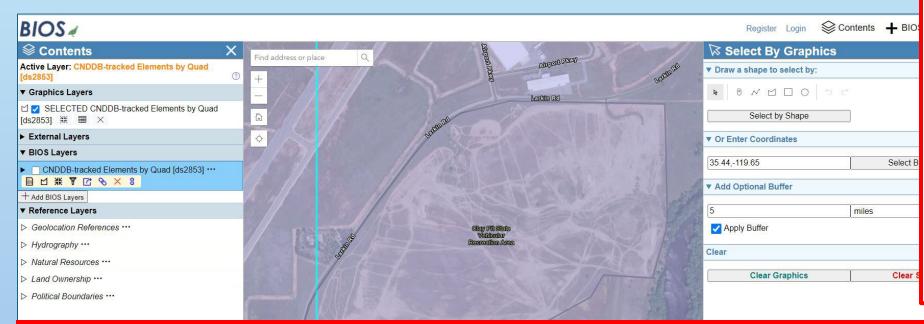
(E) Draw or trace your project area.



For this guide, our Proposed Project Area is a 220-acre open ride OHV park in Oroville, CA called Clay Pit SVRA. We will use the "*Polygon*" option to map this area as it is nonlinear, and the Proposed Project will occur in or around all 220-acres.

(G) If for any reason you accidently double click or want to remap the area you can click on the "*Clear Graphics*" button to start over. (F) After you select your shape to draw, click on the map to drop a point for the polyline or polygon. Use your mouse to click and drop multiple points until you feel your proposed Project has been adequately mapped. When you're done double-click your mouse to drop the last point.

### Step 4 (H): Generating a CNDDB Search



(H) Once you drop your last point BIOS 6 will then automatically run a CNDDB Search based on your project area and buffer region.

A table will pop-up at the bottom of your screen. This table includes all of the recorded occurrences of sensitive resources within your proposed project area and buffer region.

	-tracked Ele	ments by Q	uad [ds2853]	(4 features) (148 related	records) 柴 日 🗘									^ X
OBJECTID	QUADCODE	QUADNAME	ElmType	SciName	CommonName	ElmCode	Fed Status	CalStatus	CDFWStatus	RPlantRank	QuadCode	QuadName	Data Status	Taxon Sort
1 745	3912145	PALERMO	Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	Proposed Threatened	None	SSC		39 <mark>1</mark> 2145	PALERMO	Mapped	Animals - Amphibians - Scaphiopodidae - Spea hammondii
2 745	3912145	PALERMO	Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	2	(a)	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
3 745	3912145	PALERMO	Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	1000 C	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
4 745	3912145	PALERMO	Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	2	(a)	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
5 745	3912145	PALERMO	Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	5		3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
6 7 <b>4</b> 5	3912145	PALERMO	Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	39 <mark>1</mark> 2145	PALERMO	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
7 745	3912145	PALERMO	Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	8.701	3912145	PALERMO	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
8 745	3912145	PALERMO	Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3912145	PALERMO	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
9 745	3912145	PALERMO	Animals - Birds	Laterallus jamaicensis	California black rail	ABNME03041	None	Threatened	FP	325	3912145	PALERMO	Mapped	Animals - Birds - Rallidae - Laterallus

#### Step 4 (I,J): Generating a CNDDB Search

BIOS	A											Re	egister Login	$\otimes$ Contents + BIOS Data $\diamond$	Tool
<b>⊗</b> Con	tents			X Find address or	rplace Q		Let A		D			Selec	t By Graph	nics	×
Active Lay [ds2853]	er: CNDDB-t	racked Elem	ents by Quad			A	191		14		V .	Draw a sha	ape to select by:		
▼ Graphics	s Layers						114	43 18	TA DA	i gett	5540	R 0 ^			
	ECTED CNDI	DB-tracked E	lements by Qua	d 🛱		Blavo	A.	243		Lake Oro	ville		elect by Shape		
External	Layers			0 mm 13					- X 5	State Recru		Or Enter C	oordinates		
▼ BIOS La	yers						Thermallio Forebay	-CM			100				
			uad [ds2853]	· •		11/ 12	1	OTOXIII	- Fl	1 Contraction		35.44,-119.6	5	Select By Location	
		× 8			Rich	vale 182	2	FR	TEL SALL	4 HI	urleton	a option			
	Layers			DARK DELT			A 2 1		1 Aug		1.7.78				
▼ Reference	e Layers			162	162	Treamally			2. C. C.			5		iles	•
⊳ Geoloca	tion Referenc	ces ····				Altobay			CO P			Apply Bu	iffer		
⊳ Hydrogra	aphy •••					TANK 1	70	Palanno	M PER	KAL K	Ra	lear			
⊳ Natural I	Resources ····			67	Carles Ki-	Blags	h T			、周文 1		ieai			
⊳ Land Ow	vnership •••				Con Ent		Hanks F	調理		A ST		C	lear Graphics	Clear Selection	
⊳ Political	Boundaries •			0 2	5/ 5/ 10 P	Gridley		-	- sp						
	B-tracked El	lements by Q	uad [ds2853]	(4 features) (148 related	d records) 米 日 〇				14					~	×
		E QUADNAME		SciName	CommonName	ElmCode	FedStatus	CalStatus	CDFWStatus	RPlantRank	QuadCode	e QuadName	Data Status	TaxonSort	
1 745	3912145	PALERMO	Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	Proposed Threatened	None	SSC	а.	3912145	PALERMO	Mapped	Animals - Amphibians - Scaphiopodidae - Spe hammondii	a
2 745	3912145	PALERMO	Animals - Birds	Ardea herodias	great blue heron	ABNGA04010		None	-		3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias	-1
3 745	3912145	PALERMO	Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	4	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea alba	
4 745	3912145	PALERMO	Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	~	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Egretta thula	
5 745	3912145	PALERMO	Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	23	52	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax	
6 745	3912145	PALERMO	Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	đ	3912145	PALERMO	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus	
7 745	39 <mark>1</mark> 2145	PALERMO	Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3912145	PALERMO	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus	
8 745	3912145	PALERMO	Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	4	3912145	PALERMO	Mapped	Animals - Birds - Accipitridae - Buteo swainson	ni
9 745	3912145	PALERMO	Animals - Birds	Laterallus jamaicensis	California black rail	ABNME03041	None	Threatened	FP	87	3912145	PALERMO	Mapped	Animals - Birds - Rallidae - Laterallus	-

(J) You can also view the total number of reported occurrence records from your search here. "*Features*" is the number of quads that were searched, and "*related records*" is the number of occurrences that have been reported in those areas.

(I) Be sure to zoom your map out to view your search area and make sure it matches your proposed Project Area.

Blue/Teal Lines = Quads that were searched for sensitive species.

Purple Area = Project Area and Buffer region.

Gray Lines = Drawn Polygon or Polyline.

#### Step 5 (A,B): Downloading the Species Table

BIOS	4												Re	gister Login	Secontents	+ BIOS Da	ta 🛱 Tools
Secon	tents			X Find address	or place Q	TASK .		The state	a ar let	the ga	11/10	7	Selec	t By Grapi	nics		×
Active Laye [ds2853]	r: CNDDB-tra	acked Elem	ents by Quad	(2) + 1/1/1			1.8	191		4 24		•	Draw a sha	pe to select by	:		
▼ Graphics	Layers						A STAN		= wh			1	× 0 ×				
<sup>[]</sup> ☑ SELE [ds2853] 붉		B-tracked E	elements by Quad	d 🖧			Blavo	12	-		Lake Oro State Recre	ville	Se	elect by Shape			
► External	Layers			0							Area	100 M	Or Enter C	oordinates			
▼ BIOS Lay	ers			ROT IS		<b>REAL</b>		Thermallin Forebey	Y-CV		1 2			-			
	B-tracked Ele	ements by Q	uad [ds2853] ···					1- 11	Oroville	and the	at s	3	5.44,-119.65	5		Select By Loc	ation
	8 1 8	× 8		- 5 C- 14	100 M	Rich	vale 16	2	Th	TRA.	Hu.	urleton 🔻	Add Optior	nal Buffer			
	Layers			ANS CONT				a 2	1-1-	- Charles	Text 20	Si de					
▼ Referenc	e Layers			162		162	Thermelli		1	1-2.5		5			mies		
▷ Geolocat	ion Reference	əs •••				E HAR	Allachery	125 25 /		1017			Apply Bu	ffer			
> Hydrogra	phy •••								Palarmo	No Perry	XIII /						
> Natural F	esources ····			67	Kellar ora	11-	Elogs		E ARE	and the second	、唐大学	Rac C	ear				
⊳ Land Ow	nership •••				E X	1					A Star		C	lear Graphics		Clear Select	tion
	Boundaries •••						STATIS	And States		16 237	D'ANA						
P FUILICAI L	oundaries				A Star	6 14-2	Gridley	CELE A	144	The start	- The second	1					
										14	1						
	3-tracked Ele	ements by C	Quad [ds2853]	(4 features) (148 rela	ted records) 붉똕 년	⇒ 🖓 🗲											^ X
	QUADCODE			SciName		onName	ElmCode	FedStatus	CalStatus		RPlantRank	a constant and the second		Data Status		Taxon Sort	
1 745	3912145	PALERMO	Animals - Amphibians	Spea hammondii	western spadefor		AAABF02020	Proposed Threatened	None	SSC	(#2)	3912145	PALERMO	Mapped	Animals - Ampl hammondii	hibians - Scaphiopod	lidae - Spea
2 745	3912145	PALERMO	Animals - Birds	Ardea herodias	great blue heron		ABNGA04010	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds	s - Ardeidae - Ardea h	nerodias
3 745	3912145	PALERMO	Animals - Birds	Ardea alba	great egret		ABNGA04040	None	None	2		3912145	PALERMO	Unprocessed	Animals - Birds	a - Ardeidae - Ardea a	alba
4 745	3912145	PALERMO	Animals - Birds	Egretta thula	snowy egret		ABNGA06030	None	None	-	-	3912145		Unprocessed		a - Ardeidae - Egretta	
5 745	3912145	PALERMO	Animals - Birds	Nycticorax nycticorax	black-crowned ni	ht heron	ABNGA11010	None	None	2	271	3912145	PALERMO	Unprocessed	Animals - Birds	s - Ardeidae - Nyctico	rax
6 745	3912145	PALERMO	Animals - Birds	Pandion haliaetus	osprey		ABNKC01010	None	None	WL	-	39 <mark>1</mark> 2145	PALERMO	Unprocessed	and the second s	a - Pandionidae - Pan	ndion
7 745	3912145		Ifvor			iorea					20	39 <mark>1</mark> 2145	PALERMO	Unprocessed		- Accipitridae - Halia	aeetus
8 745	3912145	(B)	ii you	do not l	nave M	10108	SOLEX	ceroi	[		-	3912145	PALERMO	Manned		- Accinitridae - Bute	o swainsoni

another similar program able to access the

data your other option is to print the table.

icon located at the top center of the table.

You can do this by clicking on the "*Print Table*"

9 745

3912145

(A) To download your **Occurrences** Table click on the "Download Table" button located at the top center of the table. It looks like a cloud with an arrow pointing down out of it. This will download the table to your computer in an Excel (.csv) format.

Note: My preference is to use Microsoft Excel, or a similar app, as then you can better organize and more easily comb through and sort the data; especially for larger project areas with many occurrences.

Animals - Birds - Rallidae - Laterallu

3912145 PALERMO Mapped

### Step 5: Downloading the Species Table

- Once you download or print your file you should be able to view all the sensitive resources (wildlife, plants, habitats) located in and around your proposed project area.
- These tables will include the following pertinent information:
  - Species Names (Scientific & Common)
  - Listing Status (Federal, State, & CDFW)
  - Rare Plant Rank (If Applicable)
  - General Location (Quad)
  - Taxonomic Group (e.g., Birds, Plants, Fish, etc.)
- Tables will often contain multiple records of the same species as well. The number of these detections can give you an idea of species that are more common detected within or near the project area.
- This CNDDB search, combined with other search engines (USFWS's IPaC & Calflora's What Grows Here?) make for great tools to build out an HMP and account for any potential sensitive resources within a project area.
- These tables, whenever generated, may be submitted as an Attachment with your Grants Application as part of HMP Part 1 ITEM #2 if you certify that there are no potential risk factors to special status species or sensitive habitats from proposed project activities. Otherwise, these lists may be used to help build out your HMP and identify the resources you should consider within it.

#### Step 5 (C): Downloading the Species Table

(C) If you choose to download your table and open it in Excel it will look something like this.

																										_	
File Home In	Insert Page Lavout F	ormulas D	ata Review View	Automate	Help Ac	robat A	ArcGIS																ſ	Comments	🖻 Share		
																					_		_				
	Aptos Narrow ~ 11	- A a	≡ ≡ 🗐 ≫ 🗸	ab C Wrap Text	t	General		~					×	∑ Auto	oSum ∽	Ź7 /	$\bigcirc$	C C C C C C C C C C C C C C C C C C C			L.		요	L			
Paste Paste		A		🚊 Merge &	Cartan	¢ 0/	/	_0 .00 Co	onditional	Format as	Cell	Insert Dele	te Format	👽 Fill 🔨		Sort & Fin	nd & Ser	sitivity	Add-ins	Analyze	Create PE		e PDF and	Document			
~ 🎸 🖥		Ŭ <mark>A</mark> Ŭ	= = = = =	ivierge &	Center ~	.⊅ * 70	~ <b>7</b>	00 - 0 For	matting ~	Table ∽ S	tyles ~	· ·	~	🞸 Clea		Filter ~ Sele		~ _		Data	and Share	link Share		Cloud			
Clipboard 🕞	Font	F3	Alignme	ent	F3	Nu	lumber	r <u>s</u>	2	Styles		Cel	ls		Editir	ng	Sei	sitivity	Add-ins		А	dobe Acrob	at	Adobe		~	
A1 ~ :	$(\times \sqrt{f_x})$ Objectid																										
<u>.</u>		_										_	_	_	_	_						_					
	B C D	E	F G	H I	J	K					)	P	Q I	R	S	Т	U	V	W	Х	Y	Z	AA	AB	AC	- 6	
	DCOD QUADNAN ElmType					Stati RPlant		-				- hilbing a	a se a la face a se al	11-1 O		40											
	2145 PALERMO Animals					-		12145 PALEF					· · ·		ea nammo	onali											
	2145 PALERMO Animals					-		12145 PALER																			
	2145 PALERMO Animals		, 0			-		12145 PALER																			
	2145 PALERMO Animals		, .			-		12145 PALER							rov												
	2145 PALERMO Animals	,				-		12145 PALER 12145 PALER																			
	2145 PALERMO Animals				nger(FP	-		12145 PALEF								115											
	2145 PALERMO Animals		0		0	-		12145 PALEF								ua											
	2145 PALERMO Animals				itene FP	_		12145 PALEF								miculus											
	2145 PALERMO Animals							12145 PALEF								inicutus											
	2145 PALERMO Animals				itene SSC			12145 PALEF							a												
	2145 PALERMO Animals	0				_		12145 PALEF							dirostris	non 1											
	2145 PALERMO Animals		,			-		12145 PALEF						•			1										
	2145 PALERMO Animals					-		12145 PALEF																			
	2145 PALERMO Animals					-		12145 PALEF																			
	2145 PALERMO Animals							12145 PALEF																			<b>1</b>
	2145 PALERMO Animals					-		12145 PALEF									IS										
	2145 PALERMO Animals					-		12145 PALEF							•	-											
	2145 PALERMO Animals				SSC	-		12145 PALEF					•	· · ·													
745 39121	2145 PALERMO Animals	Actinemys	orthwest ARAAD020 Prop	oosed None	SSC	-	39	12145 PALEF	MO Mapp	, ped Anim	als - Rep	otiles - Emyd	idae - Actir	nemys ma	rmorata												
745 39121	2145 PALERMO Commun	i Northern I N	Northern   CTT44110( Non	e None	-	-	39	12145 PALEF	MO Mapp	, ped Comr	munity - `	Terrestrial -	Northern H	lardpan V	ernal Poo	ol											
745 39121	2145 PALERMO Animals	Branchinev	ernal poc ICBRA0303 Thre	eatene None		-	39	12145 PALEF	MO Mapp	ped a Anim	als - Cru	istaceans - E	Branchinec	tidae - Bra	anchinect	a lynchi											
	2145 PALERMO Animals					-		12145 PALEF									is										
5 745 39121	2145 PALERMO Animals	Lepidurus v	ernal poc ICBRA1001 Enda	angereNone	-	-		12145 PALEF																			
6 745 39121	2145 PALERMO Animals	Desmocerv	alley elde IICOL4801 Thre	eatene None		-	39	12145 PALEF	MO Mapp	ped Anim	als - Ins	ects - Ceram	bycidae - [	Desmocer	us califor	nicus dim	orphus										
7 745 39121	2145 PALERMO Animals	Bombus c C	Crotch's b IIHYM2448 Non	e Cand	idate -	-	39	12145 PALEF	MO Unpre	oces: Anim	als - Ins	ects - Apida	e - Bombus	s crotchii													
8 745 39121	2145 PALERMO Animals	Gonidea av	vestern ri IMBIV1901 Non	e None	-	-	39	12145 PALEF	MO Mapp	ped Anim	als - Mo	llusks - Unic	nidae - Go	onidea ang	gulata												
9 745 39121	2145 PALERMO Plants - V	Calycader s	picate ca PDAST1P0 Non	e None	-	1B.3	39	12145 PALEF	MO Mapp	ped Plant	s - Vasci	ular - Astera	ceae - Caly	cadenia s	picata												
745 39121	2145 PALERMO Plants - V	Limnanthev	voolly me PDLIM0204 Non	e None	-		4.2 39	12145 PALEF	MO Unpre	oces: Plant	s - Vasci	ular - Limna	nthaceae -	Limnanth	es flocco	sa ssp. fl											
745 39121	2145 PALERMO Plants - V	Leptosiph b	oristly lep PDPLM090 Non	e None	-		4.2 39	12145 PALEF	MO Unpre	oces: Plant	s - Vasci	ular - Polem	oniaceae -	Leptosiph	non aureu	IS	NI -	• • •	ام حا		امدا		.:				ما م بم م
	2145 PALERMO Plants - V				-	1B.2	39	12145 PALEF	MO Mapp	ped Plant	s - Vasci	ular - Junca	ceae - Junc	us leiospe	ermus var	. ahartii	IN O	te:	ιτ α	oes	100	kar	ntm	iessy	ί ατ τ	Irst g	glanc
3 745 39121	2145 PALERMO Plants - V	Wolffia br E	Brazilian PMLEM03( Non	e None	-	2B.3	39	12145 PALEF	MO Unpre	oces: Plant	s - Vasci	ular - Lemna	ceae - Wol	lffia brasil	iensis									-		-	0
4 745 39121	2145 PALERMO Plants - V	aOrcuttia t∈s	lender O PMPOA4G Thre	eatene Endai	ngere-	1B.1	39	12145 PALEF	MO Mapp	ped a Plant	s - Vasci	ular - Poace	ae - Orcutti	ia tenuis			l an	von	e ta	mili	iar w	/ith	exce	el sho	bluc	bea	able 1
	2145 PALERMO Plants - V							12145 PALEF										-									
			louble-cr ABNFD010 Non			-		12146 BIGGS				ds - Phalacr			oterum au	uritum	an	d or	roar	nize	this	000	urre	nce	data	a inte	o a m
	2146 BIGGS Animals		reat blue ABNGA04( Non	e None		-		12146 BIGGS		oces: Anim	als - Biro	ds - Ardeida	e - Ardea h	erodias					5 <sup>01</sup>	1120	0113	000	and	100	uut		Jun
	biosds2853 fpu 173342		+														dia		iblo	\ nn	dore	roni	boz	table	for	0.00	luatio
			1														צונט ו	651	IDLE	; ai li	սսւ	zaill	ZEU	raut	5 101	eval	เนลเท

#### Step 5 (D): Downloading the Species Table

(D) If you instead choose to print it out, your table will look something like this.

OBJECTID	QUADCODE	QUADNAME	ElmType	SciName	CommonName	ElmCode	FedStatus	CalStatus	CDFWStatus	RPlantRank	QuadCode	QuadName	DataStatus	TaxonSort
745	3912145	PALERMO	Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	Proposed Threatened	None	SSC	-	3912145	PALERMO	Mapped	Animals - Amphibians - Scaphiopodidae - Spea hammondii
745	3912145	PALERMO	Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
745	3912145	PALERMO	Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
745	3912145	PALERMO	Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
745	3912145	PALERMO	Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
745	3912145	PALERMO	Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3912145	PALERMO	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
745	3912145	PALERMO	Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3912145	PALERMO	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
745	3912145	PALERMO	Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3912145	PALERMO	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
745	3912145	PALERMO	Animals - Birds	Laterallus jamaicensis coturniculus	California black rail	ABNME03041	None	Threatened	FP	-	3912145	PALERMO	Mapped	Animals - Birds - Rallidae - Laterallus jamaicensis coturniculus
745	3912145	PALERMO	Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3912145	PALERMO	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Riparia riparia
745	3912145	PALERMO	Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3912145	PALERMO	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
745	3912145	PALERMO	Animals - Fish	Acipenser medirostris pop. 1	green sturgeon - southern DPS	AFCAA01031	Threatened	None	SSC	-	3912145	PALERMO	Mapped and Unprocessed	Animals - Fish - Acipenseridae - Acipenser medirostris pop. 1
745	3912145	PALERMO	Animals -	Oncorhynchus	chinook salmon -	AFCHA0205L	Threatened	Threatened	-	-	3912145	PALERMO	Mapped and	Animals - Fish -

#### **Contact Information**

For any questions regarding using CDFW's BIOS 6 search engine to run CNDDB searches for OHMVR Division Grants Applications please feel free to reach out via the email address provided below:

Shane.Emerson@parks.ca.gov



