

## APPENDIX A: DATABASE SEARCH RESULTS

### 1.1 Introduction to Appendix A

The following pages present the results of several museum database searches. The database searches were originally conducted for the California High-Speed Rail System San Jose to Merced Section and therefore cover a more extensive area and include geologic units outside the Central Valley Wye resource study areas. As a primary source of data for this technical report, however, they are included here in their entirety.

1. Results of a database search of the University of California Museum of Paleontology collections. The following geologic units were queried in the search.
  - Undifferentiated Recent/Holocene, Santa Clara County
  - Undifferentiated Recent/Holocene, Santa Cruz County
  - Undifferentiated Recent/Holocene, Merced County
  - Undifferentiated Recent/Holocene, San Benito County
  - Dos Palos Alluvium
  - Alluvium of San Luis Ranch/San Luis Ranch Alluvium
  - Undifferentiated Pleistocene, Santa Clara County
  - Undifferentiated Pleistocene, San Benito County
  - Undifferentiated Pleistocene, Merced County
  - Santa Clara Formation
  - Modesto Formation
  - Riverbank Formation
  - Turlock Lake Formation
  - Undifferentiated Paleocene and Eocene, Santa Clara County
  - Undifferentiated Paleocene and Eocene, San Benito County
  - Undifferentiated Paleocene and Eocene, Merced County
  - Panoche Formation (results of Los Angeles County Museum of Natural History invertebrate collections database search and PaleoPortal online search also included)
  - Moreno Formation
  - Hawk Shale
2. Results of a database search of the Sierra College Natural History Museum collections. The following geologic units were queried in the search.
  - Unnamed Holocene and Pleistocene units of the Santa Clara Valley, Pacheco Pass area, and western San
  - Joaquin Valley
  - Alluvium of San Luis Ranch/San Luis Ranch alluvium
  - Dos Palos alluvium
  - Modesto Formation
  - Riverbank Formation

- Santa Clara Formation, Packwood Gravels, Silver Creek Gravels
  - Franciscan complex
  - Moreno Formation
  - Panoche Formation
  - Hawk Shale
3. Results of a database search of the Natural History Museum of Los Angeles County collections.
  4. Results of a supplemental search of the University of California Museum of Paleontology collections databases for the undifferentiated Holocene of Madera County.

# UCMP UC Museum of Paleontology Specimens

Number of matches: 1

- [Download your results](#) (tab-delimited text file with .xls file extension, 1 lines, file size =0.3 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE county\_std = "Santa Clara County" and epoch = "Recent" ORDER BY cast(specno as unsigned integer)

*Click on the Spec # to see the full specimen record*

Spec # <sup>t</sup>	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">14675</a>	Invertebrates	Gastropoda	Planorbis occidentalis		Syntype	Quaternary	Recent	<a href="#">2489-</a>		Santa Clara County	California	United States

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# UCMP UC Museum of Paleontology Localities

Number of matches: 2

- [Download your results](#) (tab&delimited text file with .xls file extension, 2 lines, file size = 0.3 K)
- [Map localities with a US county](#)

Query: SELECT FROM ucmp\_loc2 WHERE county\_std = "Santa Clara County" and epoch = "Holocene" ORDER BY loc\_prefix,cast(loc\_num as unsigned integer),loc\_suffix

Click on the Loc ID to see the full locality record

Loc ID	Coll	Locality Name	County	State / Province	Country	Cont	Period	Epoch	Formation	Member	Storage Age	Flora/Fauna
<a href="#">R655</a>		Guadalupe Rio River	Santa Clara County	California	United States	North America	Quaternary	Holocene				
<a href="#">R1400</a>		Alum Creek	Santa Clara County	California	United States	North America	Quaternary	Holocene				

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 6

- [Download your results](#) (tab-delimited text file with .xls file extension, 6 lines, file size=1.1 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE county\_std = "Santa Cruz County" and epoch = "Recent" ORDER BY cast(specno as unsigned integer)

*Click on the Spec # to see the full specimen record*

Spec #	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">30613</a> <sub>t</sub>	Invertebrates	Bivalvia	Yoldia cooperi		Holotype	Quaternary	Recent	<a href="#">IP12911</a> <sub>t</sub>		Santa Cruz County	California	United States
<a href="#">38215</a> <sub>t</sub>	Invertebrates	Gastropoda	Helix sequoicola soquela		Syntype	Quaternary	Recent	<a href="#">R1008</a> <sub>t</sub>	Santa Cruz Mountains	Santa Cruz County	California	United States
<a href="#">53079</a> <sub>t</sub>	Invertebrates	Gastropoda	Lottia limatula			Quaternary	Recent	<a href="#">E757</a> <sub>t</sub>	Santa Cruz	Santa Cruz County	California	United States
<a href="#">53187</a> <sub>t</sub>	Invertebrates	Gastropoda	Lottia digitalis			Quaternary	Recent	<a href="#">IP10951</a> <sub>t</sub>	Davenport	Santa Cruz County	California	United States
<a href="#">53551</a> <sub>t</sub>	Invertebrates	Gastropoda	Lottia parigitalis			Quaternary	Recent	<a href="#">IP449</a> <sub>t</sub>	Willow's Cove	Santa Cruz County	California	United States
<a href="#">166382</a> <sub>t</sub>	Invertebrates	Bivalvia	Modiolus capax			Quaternary	Recent	<a href="#">RS5382</a> <sub>t</sub>	Santa Cruz	Santa Cruz County	California	United States

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# **UCMP** UC Museum of Paleontology Localities

Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE county\_std = "San Benito County" and epoch = "Holocene"  
ORDER BY loc\_prefix,cast(loc\_num as unsigned integer),loc\_suffix

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# **UCMP** UC Museum of Paleontology Specimens

Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE county\_std = "Merced County" and epoch = "Recent" ORDER BY cast(specno as unsigned integer)

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# **UCMP** UC Museum of Paleontology Specimens

Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE county\_std = "Merced County" and epoch = "Holocene"  
ORDER BY cast(specno as unsigned integer)

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# **UCMP** UC Museum of Paleontology Localities

Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE state\_prov\_std = "California" and formation like "%Dos Palos%" ORDER BY loc\_prefix,cast(loc\_num as unsigned integer),loc\_suffix

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# **UCMP** UC Museum of Paleontology Localities

Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE state\_prov\_std = "California" and formation like "%San Luis Ranch%" ORDER BY loc\_prefix,cast(loc\_num as unsigned integer),loc\_suffix

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 6

- [Download your results](#) (tab-delimited text file with .xls file extension, 6 lines, file size=1.1 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE county\_std = "Santa Clara County" and epoch = "Pleistocene" ORDER BY cast(specno as unsigned integer)

*Click on the Spec # to see the full specimen record*

Spec #	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">8753</a> t	Vertebrates	Mammalia	Platygonus			Quaternary	Pleistocene	<a href="#">V6561</a>	San Felipe	Santa Clara County	California	United States
<a href="#">39212</a> t	Vertebrates	Mammalia	Bison			Quaternary	Pleistocene	<a href="#">V4916</a> t	Milpitas	Santa Clara County	California	United States
<a href="#">136495</a> t	Vertebrates	Mammalia	Bison latifrons			Quaternary	Pleistocene	<a href="#">V90003</a> t	Molecular Medicine bldg.	Santa Clara County	California	United States
<a href="#">137236</a> t	Vertebrates	Mammalia	Mammuthus			Quaternary	Pleistocene	<a href="#">V91128</a>	Lawrence Expressway E	Santa Clara County	California	United States
<a href="#">139034</a> t	Vertebrates	Mammalia				Quaternary	Pleistocene	<a href="#">V93037</a> t	Anderson Lake	Santa Clara County	California	United States
<a href="#">150077</a> t	Vertebrates	Mammalia	Mammuthus columbi			Quaternary	Pleistocene	<a href="#">V99597</a> t	SCVWD Mammoth	Santa Clara County	California	United States

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# UCMP UC Museum of Paleontology Localities

Number of matches: 8

- [Download your results](#) (tab-delimited text file with .xls file extension, 8 lines, file size = 1.2 K)
- [Map localities with a US county](#)

Query: SELECT FROM ucmp\_loc2 WHERE state\_prov\_std = "California" and county\_std = "San Benito County" and epoch = "Pleistocene" ORDER BY loc\_prefix,cast(loc\_num as unsigned integer),loc\_suffix

Click on the Loc ID to see the full locality record

Loc ID	Coll	Locality Name	County	State / Province	Country	Cont	Period	Epoch	Formation	Member	Storage Age	Flora/Fauna
<a href="#">V2407</a>	v	Live Oak School	San Benito County	California	United States	North America	Quaternary	Pleistocene	San Benito Gravels		Irvingtonian	
<a href="#">V2408</a>	v	Elkhorn Ranch	San Benito County	California	United States	North America	Quaternary	Pleistocene	San Benito Gravels		Irvingtonian	
<a href="#">V2409</a>	v	Emmett School	San Benito County	California	United States	North America	Quaternary	Pleistocene	San Benito Gravels		Irvingtonian	
<a href="#">V6903</a>	v	Bengard Ranch	San Benito County	California	United States	North America	Quaternary	Pleistocene			Rancholabrean	
<a href="#">V6963</a>	v	Sallee Ranch	San Benito County	California	United States	North America	Quaternary	Pleistocene	San Benito Gravels		Rancholabrean	
<a href="#">V6964</a>	v	Abbe Ranch	San Benito County	California	United States	North America	Quaternary	Pleistocene	San Benito Gravels		Rancholabrean	
<a href="#">V6965</a>	v	Hollister Gravel Pit	San Benito County	California	United States	North America	Quaternary	Pleistocene	San Benito Gravels		Rancholabrean	
<a href="#">V6968</a>	v	Bird Creek	San Benito County	California	United States	North America	Quaternary	Pleistocene	San Benito Gravels		Rancholabrean	

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 26

- [Download your results](#) (tab-delimited text file with .xls file extension, 26 lines, file size =3.7 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE county\_std = "Merced County" and epoch = "Pleistocene" ORDER BY cast(specno as unsigned integer)

Click on the Spec # to see the full specimen record

Spec #	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">1577</a>	Vertebrates	Mammalia	Mammut americanum			Quaternary	Pleistocene	<a href="#">V69172</a>	Merced Falls	Merced County	California	United States
<a href="#">19705</a>	Vertebrates	Mammalia	Elephas			Quaternary	Pleistocene	<a href="#">-2049</a>	Merced County	Merced County	California	United States
<a href="#">33414</a>	Vertebrates	Mammalia	Bison			Quaternary	Pleistocene	<a href="#">V3720</a>	Thompson	Merced County	California	United States
<a href="#">65102</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">65103</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">65104</a>	Vertebrates	Mammalia				Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">65105</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">65106</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">65551</a>	Vertebrates	Mammalia				Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">65552</a>	Vertebrates	Mammalia				Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">66327</a>	Vertebrates	Mammalia				Quaternary	Pleistocene	<a href="#">V6401</a>	San Luis Canal	Merced County	California	United States
<a href="#">66328</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6401</a>	San Luis Canal	Merced County	California	United States
<a href="#">66329</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6401</a>	San Luis Canal	Merced County	California	United States
<a href="#">66330</a>	Vertebrates	Mammalia	Camelops			Quaternary	Pleistocene	<a href="#">V6401</a>	San Luis Canal	Merced County	California	United States
<a href="#">68027</a>	Vertebrates	Mammalia	Mammothus			Quaternary	Pleistocene	<a href="#">V6401</a>	San Luis Canal	Merced County	California	United States
<a href="#">80471</a>	Vertebrates	Mammalia	Glossotherium harlani			Quaternary	Pleistocene	<a href="#">V6806</a>	Merced River 1	Merced County	California	United States
<a href="#">80472</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6806</a>	Merced River 1	Merced County	California	United States
<a href="#">80473</a>	Vertebrates	Mammalia	Bison			Quaternary	Pleistocene	<a href="#">V6806</a>	Merced River 1	Merced County	California	United States
<a href="#">80474</a>	Vertebrates	Mammalia	Camelops			Quaternary	Pleistocene	<a href="#">V6806t</a>	Merced River 1	Merced County	California	United States
<a href="#">82964</a>	Vertebrates	Aves				Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">82965</a>	Vertebrates	Mammalia	Mammothus columbi			Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">82966</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">82967</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
<a href="#">82974</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V6321</a>	San Luis Dam	Merced County	California	United States
			Mammothus						San Luis	Merced		United

<a href="#">86141</a>	Vertebrates	Mammalia	columbi			Quaternary	Pleistocene	<a href="#">V6401</a>	Canal	County	California	States
<a href="#">86154</a>	Vertebrates	Mammalia	Mammuthus columbt			Quaternary	Pleistocene	<a href="#">V6401</a>	San Luis Canal <sup>t</sup>	Merced County	California	United States

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**UC Museum of Paleontology Localities**

Number of matches: 14

- [Download your results](#) (tab-delimited text file with .xls file extension, 14 lines, file size = 1.9 K)
- [Map localities with a US county](#)

Query: SELECT FROM ucmp\_loc2 WHERE formation = "Santa Clara" ORDER BY loc\_prefix,cast(loc\_num as unsigned integer),loc\_suffix

*Click on the Loc ID to see the full locality record*

Loc ID	Coll	Locality Name	County	State / Province	Country	Cont	Period	Epoch	Formation	Member	Storage Age	Flora/Fauna
<a href="#">160</a>	P	Calabazas Canyon	Santa Clara County	California	United States	North America	Tertiary	Late Pliocene	Santa Clara		Pliocene	
<a href="#">A9442</a>	I	Scott Creek	Santa Clara County	California	United States	North America	Quaternary	Pleistocene	Santa Clara			
<a href="#">B7275</a>	I		San Mateo County	California	United States	North America	Tertiary	Pliocene	Santa Clara			
<a href="#">B7731</a>	I		San Mateo County	California	United States	North America	Tertiary	Pliocene	Santa Clara			
<a href="#">D2889</a>	I		Santa Clara County	California	United States	North America	Quaternary,Tertiary	Pleistocene,Pliocene	Santa Clara			
<a href="#">D2906</a>	I	Scott Creek	Santa Clara County	California	United States	North America	Quaternary,Tertiary	Pleistocene,Pliocene	Santa Clara			
<a href="#">P3611</a>	P	Scott Creek Valley I	Alameda County	California	United States	North America	Quaternary	Pleistocene	Santa Clara		Pleistocene	
<a href="#">PA61</a>	P	Skyline Pine	San Mateo County	California	United States	North America	Tertiary	Late Pliocene	Santa Clara		Pliocene	
<a href="#">PA129</a>	P	Scott Creek Valley II	Alameda County	California	United States	North America	Quaternary	Pleistocene	Santa Clara		Pleistocene	
<a href="#">V5313</a>	V	Scott Creek	Alameda County	California	United States	North America	Quaternary	Pleistocene	Santa Clara		Irvingtonian	
<a href="#">V90003</a>	V	Molecular Medicine bldg.	Santa Clara County	California	United States	North America	Quaternary	Pleistocene	Santa Clara		Rancholabrean	
<a href="#">V90055</a>	V	Calabazas Creek	Santa Clara County	California	United States	North America	Quaternary	Pleistocene	Santa Clara	Stevens Creek?	Irvingtonian	
<a href="#">V93037</a>	V	Anderson Lake	Santa Clara County	California	United States	North America	Quaternary	Pleistocene	Santa Clara		Irvingtonian	
<a href="#">V99497</a>	V	Strannigan Backyard	Santa Clara County	California	United States	North America	Tertiary		Santa Clara			

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**UC Museum of Paleontology Specimens**

Number of matches: 18

- [Download your results](#) (tab-delimited text file with .xls file extension, 18 lines, file size =3.0 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE loc\_ID\_num = "160" ORDER BY cast(specno as unsigned integer)

*Click on the Spec # to see the full specimen record*

Spec #	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">301</a>	Plants	Filicopsida	Pteris calabazensis		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">302</a>	Plants	Filicopsida	Pteris calabazensis		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">309</a>	Plants	Gymnospermopsida	Pinus			Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">321</a>	Plants	Gymnospermopsida	Calocedrus			Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">322</a>	Plants	Gymnospermopsida	Calocedrus			Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">343</a>	Plants	Magnoliopsida	Alnus merriami		plesiotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">352</a>	Plants	Magnoliopsida	Quercus hannibali		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">353</a>	Plants	Magnoliopsida	Quercus hannibali		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">382</a>	Plants	Magnoliopsida	Ribes stanfordianum		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">383</a>	Plants	Magnoliopsida	Ribes stanfordianum		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">384</a>	Plants	Magnoliopsida	Ribes stanfordianum		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">385</a>	Plants	Magnoliopsida	Cercocarpus cuneatus		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">386</a>	Plants	Magnoliopsida	Cercocarpus cuneatus		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">387</a>	Plants	Magnoliopsida	Prunus merriami			Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">392</a>	Plants	Magnoliopsida	Amelanchier			Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">393</a>	Plants	Magnoliopsida	Amelanchier			Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">403</a>	Plants	Magnoliopsida	Ceanothus chaneyi		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States
<a href="#">404</a>	Plants	Magnoliopsida	Ceanothus		cotype	Tertiary	Late Pliocene	<a href="#">160</a>	Calabazas Canyon	Santa Clara County	California	United States

|||chaneyi|||t||Pliocene||Canyon||County||States||

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 3


- [Download your results](#) (tab-delimited text file with .xls file extension, 3 lines, file size =0.6 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE loc\_ID\_num = "B7731" ORDER BY cast(specno as unsigned integer)

*Click on the Spec # to see the full specimen record*

Spec #	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">30093</a>	Invertebrates	Gastropoda	Fluminicola sanmateoensis		Paratype	Tertiary	Pliocene	<a href="#">B7731</a>		San Mateo County	California	United States
<a href="#">32124</a>	Invertebrates	Gastropoda	Parapholix durhami		Paratype	Tertiary	Pliocene	<a href="#">B7731</a>		San Mateo County	California	United States
<a href="#">32763</a>	Invertebrates	Gastropoda	Parapholix durhami		Paratype	Tertiary	Pliocene	<a href="#">B7731</a>		San Mateo County	California	United States

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 2

- [Download your results](#) (tab-delimited text file with .xls file extension, 2 lines, file size =0.4 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE loc\_ID\_num = "V5313" ORDER BY cast(specno as unsigned integer)

*Click on the Spec # to see the full specimen record*

Spec #	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">43992</a>	Vertebrates	Mammalia	Equus			Quaternary	Pleistocene	<a href="#">V5313</a>	Scott Creek	Alameda County	California	United States
<a href="#">43993</a>	Vertebrates	Osteichthyes				Quaternary	Pleistocene	<a href="#">V5313</a>	Scott Creek	Alameda County	California	United States

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 1

- [Download your results](#) (tab-delimited text file with .xls file extension, 1 lines, file size =0.3 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE loc\_ID\_num = "V90003" ORDER BY cast(specno as unsigned integer)

*Click on the Spec # to see the full specimen record*

Spec #	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">136495</a> <a href="#">t</a> <a href="#">t</a>	Vertebrates	Mammalia	Bison latifrons			Quaternary	Pleistocene	<a href="#">V90003</a>	Molecular Medicine bldg	Santa Clara County	California	United States

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 1

- [Download your results](#) (tab-delimited text file with .xls file extension, 1 lines, file size =0.3 K)
- [Map specimens with a US county](#)

QUERY: SELECT FROM ucmp WHERE loc\_ID\_num = "V93037" ORDER BY cast(specno as unsigned integer)

*Click on the Spec # to see the full specimen record*

Spec #	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">139034</a>	Vertebrates	Mammalia				Quaternary	Pleistocene	<a href="#">V93037</a>	Anderson Lake	Santa Clara County	California	United States

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 1

- [Download your results](#) (tab-delimited text file with .xls file extension, 1 lines, file size =0.3 K)
- [Map specimens with a US county](#)

QUERYaSELECT FROM ucmp WHERE loc\_ID\_num = "V99497" ORDER BY cast(specno as unsigned integer)

Click on the Spec # to see the full specimen record

Spec # a	Collection	Class	Genus species ssp	Other Name	Type Status	Period	Epoch	Loc ID#	Locality Name	County	State/Prov	Country
<a href="#">148568</a>	Vertebrates	Mammalia	Equus			Tertiary		<a href="#">V99497</a>	Strannigan Backyard	Santa Clara County	California	United States

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**UC Museum of Paleontology Specimens**

Number of matches: 27

- [Download your results](#) (tab-delimited text file with .xls file extension, 27 lines, file size =3.2 K)

Query: SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE formation = "Modesto" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">97554t</a>	Vertebrates	Mammalia	Megalonyx	jeffersoni		Pleistocene	Quaternary	V72007	Garber Farm	Stanislaus County	California	United States
<a href="#">97555t</a>	Vertebrates	Mammalia	Megalonyx	jeffersoni		Pleistocene	Quaternary	V72007	Garber Farm	Stanislaus County	California	United States
<a href="#">97556t</a>	Vertebrates	Mammalia	Mammuthus	columbi	t	Pleistocene	Quaternary	V72007	Garber Farm	Stanislaus County	California	United States
<a href="#">102675</a>	Vertebrates	Mammalia	Bison	latifrons		Pleistocene	Quaternary	V72186	McManis Ranch	Stanislaus County	California	United States
<a href="#">142212</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V96015	Willow Slough 1	Yolo County	California	United States
<a href="#">142213</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V96015	Willow Slough 1	Yolo County	California	United States
<a href="#">142214</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V96015	Willow Slough 1	Yolo County	California	United States
<a href="#">142215</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V96015	Willow Slough 1	Yolo County	California	United States
<a href="#">142216</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V96015	Willow Slough 1	Yolo County	California	United States
<a href="#">142217</a>	Vertebrates	Reptilia				Pleistocene	Quaternary	V96015	Willow Slough 1	Yolo County	California	United States
<a href="#">142218</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V96015	Willow Slough 1	Yolo County	California	United States
<a href="#">142219</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V96015	Willow Slough 1	Yolo County	California	United States
<a href="#">153054</a>	Vertebrates	Mammalia	Camelops			Pleistocene	Quaternary	V99464	Walnut Energy Center Unit B1	Stanislaus County	California	United States
<a href="#">153055</a>	Vertebrates	Mammalia	Camelops			Pleistocene	Quaternary	V99464	Walnut Energy Center Unit B1	Stanislaus County	California	United States
<a href="#">153056</a>	Vertebrates	Mammalia	Camelops			Pleistocene	Quaternary	V99464	Walnut Energy Center Unit B1	Stanislaus County	California	United States
<a href="#">153057</a>	Vertebrates	Mammalia	Camelops			Pleistocene	Quaternary	V99464	Walnut Energy Center Unit B1	Stanislaus County	California	United States
<a href="#">153058</a>	Vertebrates	Mammalia	Camelops			Pleistocene	Quaternary	V99464	Walnut Energy Center Unit B1	Stanislaus County	California	United States
<a href="#">153059</a>	Vertebrates	Mammalia	Bison			Pleistocene	Quaternary	V99464	Walnut Energy Center Unit B1	Stanislaus County	California	United States
<a href="#">197603</a>	Vertebrates	Mammalia	Mammuthus			Pleistocene	Quaternary	V99830			California	United States
<a href="#">197604</a>	Vertebrates	Mammalia	Mammuthus			Pleistocene	Quaternary	V99830			California	United States
<a href="#">197605</a>	Vertebrates	Mammalia	Mammuthus			Pleistocene	Quaternary	V99830			California	United States
<a href="#">197606</a>	Vertebrates	Mammalia	Mammuthus			Pleistocene	Quaternary	V99830			California	United States
<a href="#">197607</a>	Vertebrates	Mammalia	Mammuthus	t	t	Pleistocene	Quaternary	V99830			California	United

												States
<a href="#">197608</a>	Vertebrates	Mammalia		t		Pleistocene	Quaternary	V99829			California	United States
<a href="#">197609</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V99829			California	United States
<a href="#">197610</a>	Vertebrates	Mammalia	Mammuthus			Pleistocene	Quaternary	V99830			California	United States
<a href="#">197611</a>	Vertebrates	Mammalia	Mammuthus			Pleistocene	Quaternary	V99830			California	United States

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 250

- [Download your results](#) (tab-delimited text file with .xls file extension, 250 lines, file size =31.3 K)

Query: SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE ucmp\_coll = "V" and formation = "Riverbank" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">80703</a>	Vertebrates	Mammalia	Mammuthus	columbi		Pleistocene	Quaternary	V6846	Chicken Ranch Slough 1	Sacramento County	California	United States
<a href="#">81276</a>	Vertebrates	Mammalia	Camelops	hesternus		Pleistocene	Quaternary	V75126	Teichart Gravel Pit E 2	Sacramento County	California	United States
<a href="#">81277</a>	Vertebrates	Mammalia	Glossotherium	harlani		Pleistocene	Quaternary	V75126	Teichart Gravel Pit E 2	Sacramento County	California	United States
<a href="#">81771</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V68141	Chicken Ranch Slough 2	Sacramento County	California	United States
<a href="#">81772</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V68141	Chicken Ranch Slough 2	Sacramento County	California	United States
<a href="#">85338</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">85339</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">85340</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">85378</a>	Vertebrates	Mammalia	Canis	latrans		Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">85379</a>	Vertebrates	Mammalia	Canis	latrans		Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">85380</a>	Vertebrates	Mammalia	Canis	dirus		Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">85381</a>	Vertebrates	Mammalia	Bison			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">85382</a>	Vertebrates	Mammalia	Thomomys			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">85383</a>	Vertebrates	Aves				Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">96294</a>	Vertebrates	Osteichthyes	Orthodon			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">97557</a>	Vertebrates	Mammalia	Glossotherium	harlani		Pleistocene	Quaternary	V72008	Brant Ranch	Stanislaus County	California	United States
<a href="#">119253</a>	Vertebrates	Mammalia	Scapanus	latimanus		Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">119254</a>	Vertebrates	Mammalia	Scapanus	latimanus		Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">119255</a>	Vertebrates	Mammalia	Scapanus	latimanus		Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">119256</a>	Vertebrates	Mammalia	Scapanus	latimanus		Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124843</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
									Teichart	Sacramento		United

<a href="#">124844</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Gravel Pit E 1	County	California	States
<a href="#">124845</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124846</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124847</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124848</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124849</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124850</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124851</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124852</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124853</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124854</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124855</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124856</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">124857</a>	Vertebrates	Mammalia	Neotoma			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">125542</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V81121	Laguna Seca Ranch	Fresno County	California	United States
<a href="#">125883</a>	Vertebrates	Mammalia	Mammuthus	columbi		Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">131332</a>	Vertebrates	Reptilia	Thamnophis			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">131333</a>	Vertebrates	Reptilia	Thamnophis			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">140225</a>	Vertebrates	Mammalia	Mammuthus			Pleistocene	Quaternary	V69129	Teichart Gravel Pit E 1	Sacramento County	California	United States
<a href="#">140260</a>	Vertebrates	Mammalia	Nothrotheriops	shastensis		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140261</a>	Vertebrates	Mammalia	Nothrotheriops			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140262</a>	Vertebrates	Mammalia	Megalonyx	jeffersoni		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140263</a>	Vertebrates	Mammalia	Glossotherium	harlani		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140264</a>	Vertebrates	Mammalia	Smilodon	fatalis		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140265</a>	Vertebrates	Mammalia	Canis	armbrusteri		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140390</a>	Vertebrates	Mammalia	Homotherium	serum		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140391</a>	Vertebrates	Mammalia	Homotherium	serum		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140392</a>	Vertebrates	Mammalia	Glossotherium	harlani		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140393</a>	Vertebrates	Mammalia	Megalonyx			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States

<a href="#">140394</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140395</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140396</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140397</a>	Vertebrates	Mammalia	Hemiauchenia			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140398</a>	Vertebrates	Mammalia	Tetrameryx	irvingtonensis		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140399</a>	Vertebrates	Mammalia	Odocoileus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140400</a>	Vertebrates	Mammalia	Camelops			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140401</a>	Vertebrates	Mammalia	Camelops			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140402</a>	Vertebrates	Mammalia	Mammuthus	columbi		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140404</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140405</a>	Vertebrates	Mammalia	Mammuthus	columbi		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140406</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140407</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140408</a>	Vertebrates	Mammalia	Thomomys			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140409</a>	Vertebrates	Mammalia	Capromeryx			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140410</a>	Vertebrates	Mammalia	Tetrameryx	irvingtonensis		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140411</a>	Vertebrates	Mammalia	Tetrameryx	irvingtonensis		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140412</a>	Vertebrates	Mammalia	Hemiauchenia			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140413</a>	Vertebrates	Mammalia	Canis	latrans		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140414</a>	Vertebrates	Aves				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140415</a>	Vertebrates	Mammalia	Mammuthus	columbi		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140426</a>	Vertebrates	Mammalia	Smilodon			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140618</a>	Vertebrates	Mammalia	Miracinonyx	trumani		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140625</a>	Vertebrates	Reptilia	Clemmys	marmorata		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140626</a>	Vertebrates	Mammalia	Lepus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140627</a>	Vertebrates	Mammalia	Dipodomys			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">140645</a>	Vertebrates	Mammalia	Notiosorex			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">141402</a>	Vertebrates	Mammalia	Mammuthus	columbi		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">141403</a>	Vertebrates	Aves				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">141407</a>	Vertebrates	Mammalia	Mammuthus	columbi		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">149170</a>	Vertebrates	Reptilia	Xerobates	agassizi		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">152920</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">156047</a>	Vertebrates	Mammalia	Canis	armbrusteri		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">156048</a>	Vertebrates	Mammalia	Canis	armbrusteri		Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">156954</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">170180</a>	Vertebrates	Mammalia	Vulpes			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">170181</a>	Vertebrates	Mammalia	Vulpes			Pleistocene	Quaternary	V93128	Fairmead	Madera	California	United

									Landfill	County		States
<a href="#">171130</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171131</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171132</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171133</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171134</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171135</a>	Vertebrates	Mammalia				Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171607</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171608</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171609</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171610</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171611</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171612</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States
<a href="#">171613</a>	Vertebrates	Mammalia	Equus			Pleistocene	Quaternary	V93128	Fairmead Landfill	Madera County	California	United States

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# **UCMP** UC Museum of Paleontology Specimens

Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE (ucmp\_coll = "Invertebrates" OR ucmp\_coll = "Microfossils" OR ucmp\_coll = "Plants" OR ucmp\_coll = "Vertebrates") and county\_std = "Merced County" and match (epoch) against("Eocene?" IN BOOLEAN MODE) ORDER BY cast(specno as unsigned integer)

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Query: SELECT FROM ucmp2 WHERE (ucmp\_coll = "Invertebrates" OR ucmp\_coll = "Microfossils" OR ucmp\_coll = "Plants" OR ucmp\_coll = "Vertebrates") and county\_std = "San Benito County" and match(epoch) against("Eocene" IN BOOLEAN MODE) ORDER BY cast(specno as unsigned integer)

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# UC Museum of Paleontology Specimens


Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE (ucmp\_coll = "Invertebrates" OR ucmp\_coll = "Microfossils" OR ucmp\_coll = "Plants" OR ucmp\_coll = "Vertebrates") and county\_std = "Santa Clara County" and match(epoch) against("Eocene" IN BOOLEAN MODE) ORDER BY cast(specno as unsigned integer)

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Query: SELECT FROM ucmp2 WHERE (ucmp\_coll = "Invertebrates" OR ucmp\_coll = "Microfossils" OR ucmp\_coll = "Plants" OR ucmp\_coll = "Vertebrates") and county\_std = "San Benito County" and match(epoch) against("Paleocene" IN BOOLEAN MODE) ORDER BY cast(specno as unsigned integer)

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Query: SELECT FROM ucmp2 WHERE (ucmp\_coll = "Invertebrates" OR ucmp\_coll = "Microfossils" OR ucmp\_coll = "Plants" OR ucmp\_coll = "Vertebrates") and county\_std = "Santa Clara County" and match(epoch) against("Paleocene" IN BOOLEAN MODE) ORDER BY cast(specno as unsigned integer)

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**UC Museum of Paleontology Localities**

Number of matches: 152

[next 52](#)

- [Download your results](#) (tab-delimited text file with .xls file extension, 152 lines, file size = 17.8 K)
- [Map localities with a US county](#)

 Click on the *Loc ID* to see the *full locality record*

Loc ID	Coil	Locality Name	County	State / Province	Country	Cont	Period	Epoch	Formation	Member	Storage Age	Flora/Fauna
<a href="#">9037-</a>	1		Contra Costa County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">9047-</a>	1		Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous?	Panoche			
<a href="#">A1678</a>	1	Marsh Creek	Contra Costa County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A2988</a>	1		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3232</a>	1		Monterey County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3387</a>	1		Merced County	California	United States	North America	Cretaceous		Panoche			
<a href="#">A3388</a>	1		Merced County	California	United States	North America	Cretaceous		Panoche			
<a href="#">A3389</a>	1		Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3390</a>	1		Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3391</a>	1		Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3392</a>	1	Garzas Creek	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3395</a>	1	Ingram Creek	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Lower Panoche?		
<a href="#">A3432</a>	1	Ingram Creek	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Upper Panoche		
<a href="#">A3434</a>	1		Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3826</a>	1		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3827</a>	1		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3828</a>	1		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3829</a>	1		Fresno County	California	United States	North America	Cretaceous		Panoche			
<a href="#">A3835</a>	1		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A3837</a>	1	Escarpado Canyon	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A4890</a>	1	Avenal Creek	Kings County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A4976</a>	1	Orestimba Creek	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A4995</a>	1		Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A6592</a>	1		Kern County	California	United States	North America	Cretaceous		Panoche			
<a href="#">A6606</a>	1		Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">A6608</a>	1		Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			

<a href="#">A6609</a>		Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6610</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6611</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6612</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6613</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6614</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6615</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6617</a>	1	Merced County	California	United States	North America	Cretaceous		Panoche				
<a href="#">A6620</a>	1	Merced County	California	United States	North America	Cretaceous		Panoche				
<a href="#">A6621</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6625</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6626</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6627</a>	1	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A6833</a>	IM	Kings County	California	United States	North America	Cretaceous		Panoche				
<a href="#">A6839</a>	1	Fresno County	California	United States	North America	Cretaceous		Panoche				
<a href="#">A7581</a>	1	Kings County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A7600</a>	1	Kings County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">A8084</a>	1	Stanislaus County	California	United States	North America	Cretaceous		Panoche				
<a href="#">A9745</a>	1	Mountain House	San Joaquin County	United States	North America	Cretaceous		Panoche				
<a href="#">B59Z</a>	1	San Benito County	California	United States	North America	Cretaceous		Panoche				
<a href="#">B759</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B760</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B761</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B762</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B763</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B764</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B765</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B766</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B767</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B768</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B769</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				
<a href="#">B770</a>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche				

<u>B771</u>		Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B772</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B773</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B774</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B775</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B776</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B777</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B778</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B779</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B780</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B781</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B782</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B783</u>	1	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B941</u>	1	Kings County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B2065</u>	1	San Benito County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B2066</u>	1	San Benito County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B2200</u>	1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B2645</u>	1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B4336</u>	1	Kings County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B4352</u>	1	Fresno County	California	United States	North America	Cretaceous		Panoche			
<u>B4912</u>	1	Contra Costa County	California	United States	North America	Cretaceous		Panoche			
<u>B5618</u>	1	San Joaquin County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>B7311</u>	1	San Joaquin County	California	United States	North America	Cretaceous		Panoche			
<u>B7312</u>	1	San Joaquin County	California	United States	North America	Cretaceous		Panoche			
<u>D715</u>	IV	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche		Maastrichtian	
<u>D745</u>	1	Delta Pumping Plant Excavation	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<u>D5180</u>	1	Tres Pinos Creek	San Benito County	United States	North America	Cretaceous		Panoche			
<u>D5181</u>	1	Hammonds Ridge	San Benito County	United States	North America	Cretaceous		Panoche			
	1	Bitterwater	San	United States	North America						

<a href="#">D5182t</a>		Valley t	Benito County	California	States	America t	Cretaceous		Panoche			
<a href="#">IP10050</a>	I		Merced County	California	United States	North America	Cretaceous		Panoche			
<a href="#">IP12140</a>	I		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">IP12157</a>	I		Kings County	California	United States	North America	Cretaceous		Panoche			
<a href="#">IP12582</a>	I		Merced County	California	United States	North America	Cretaceous		Panoche			
<a href="#">IP12587</a>	I		Fresno County	California	United States	North America	Cretaceous		Panoche			
<a href="#">MF3558</a>	M	Los Gatos Creek	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Joaquin Ridge		foraminifera
<a href="#">MF3559</a>	M	Los Gatos Creek	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Joaquin Ridge		foraminifera
<a href="#">MF7920</a>	M		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">MF7922</a>	M	Panoche Fm	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">MF7923</a>	M	Panoche Fm	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">MF7924</a>	M	Panoche Fm	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">MF8294</a>	M		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			
<a href="#">MF8295</a>	M		Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche			

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**UC Museum of Paleontology Localities**

Number of matches: 42

- [Download your results](#) (tab-delimited text file with .xls file extension, 42 lines, file size = 6.5 K)
- [Map localities with a US county](#)

Query: SELECT FROM ucmp\_loc2 WHERE ucmp\_coll like "%P%" and formation like "%Panoche%" ORDER BY loc\_prefix,cast(loc\_num as unsigned integer),loc\_suffix

*Click on the Loc ID to see the full locality record*

Loc ID	Coll	Locality Name	County	State / Province	Country	Cont	Period	Epoch	Formation	Member	Storage Age	Flora/Fauna
<a href="#">P3524</a>	P	Round Valley	Contra Costa County	California	United States	North America	Cretaceous	Early Cretaceous	Panoche		Cretaceous	
<a href="#">P3823</a>	P	Moreno II	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche		Cretaceous	
<a href="#">P3828</a>	P	Bear Gulch	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Lower	Cretaceous	
<a href="#">P3849</a>	P	Garzas Creek	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche		Cretaceous	
<a href="#">PA1135</a>	P	I580/I205 Bypass Lane Project Panoche Locality I	Alameda County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche		Cretaceous	
<a href="#">PA1136</a>	P	I580/I205 Bypass Lane Project Panoche Locality II	Alameda County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche		Cretaceous	
<a href="#">PA1137</a>	P	SR41 Fossil Flora Locality 1	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous	SR41
<a href="#">PA1138</a>	P	SR41 Fossil Flora Locality 2	San Luis Obispo County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Rtsco	Cretaceous	SR41
<a href="#">PA1139</a>	P	SR41 Fossil Flora Locality 3	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous	
<a href="#">PA1140</a>	P	SR41 Fossil Flora Locality 4	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous	SR41
<a href="#">PA1141</a>	P	SR41 Fossil Flora Locality 5	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous	
<a href="#">PA1142</a>	P	SR41 Fossil Flora Locality 6	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Johnson Peak	Cretaceous	
<a href="#">PA1143</a>	P	SR41 Fossil Flora Locality 7	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Johnson Peak	Cretaceous	
<a href="#">PA1144</a>	P	SR41 Fossil Flora Locality 8t	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	<b>Panoche</b>	Catskin Canyon Sandstone	Cretaceous	
<a href="#">PA1145</a>	P	SR41 Fossil Flora Locality 9t	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche		Cretaceous	
<a href="#">PA1146</a>	P	SR41 Fossil Flora Locality 10	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous	
<a href="#">PA1147</a>	P	SR41 Fossil Flora Locality 11	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon Sandstone	Cretaceous	
<a href="#">PA1148</a>	P	SR41 Fossil Flora Locality	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous	

	12																			
<a href="#">PA1149</a>	P	SR41 Fossil Flora Locality 13	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Sandstone Catskin Canyon Sandstone	Cretaceous									
<a href="#">PA1150</a>	P	SR41 Fossil Flora Locality 14	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon Sandstone	Cretaceous									
<a href="#">PA1151</a>	P	SR41 Fossil Flora Locality 15	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	<b>Agulla</b>	Cretaceous									
<a href="#">PA1152</a>	P	SR41 Fossil Flora Locality 16	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche		Cretaceous									
<a href="#">PA1153</a>	P	SR41 Fossil Flora Locality 17	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon Sandstone	Cretaceous									
<a href="#">PA1154</a>	P	SR41 Fossil Flora Locality 18	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	<b>Agulla</b>	Cretaceous									
<a href="#">PA1155</a>	P	SR41 Fossil Flora Locality 19	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon Sandstone	Cretaceous									
<a href="#">PA1156</a>	P	SR41 Fossil Flora Locality 20	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous									
<a href="#">PA1157</a>	P	SR41 Fossil Flora Locality 21	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous									
<a href="#">PA1158</a>	P	SR41 Fossil Flora Locality 22	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous									
<a href="#">PA1159</a>	P	SR41 Fossil Flora Locality 23	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous									
<a href="#">PA1160</a>	P	SR41 Fossil Flora Locality 24	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous									
<a href="#">PA1161</a>	P	SR41 Fossil Flora Locality 25	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	<b>Agulla</b>	Cretaceous									
<a href="#">PA1162</a>	P	SR41 Fossil Flora Locality 26	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	<b>Agulla</b>	Cretaceous									
<a href="#">PA1163</a>	P	SR41 Fossil Flora Locality 27	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	<b>Agulla</b>	Cretaceous									
<a href="#">PA1164</a>	P	SR41 Fossil Flora Locality 28	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon Sandstone	Cretaceous									
<a href="#">PA1165</a>	P	SR41 Fossil Flora Locality 29	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon Sandstone	Cretaceous									
<a href="#">PA1166</a>	P	SR41 Fossil Flora Locality 30	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	<b>Agulla</b>	Cretaceous									
<a href="#">PA1167</a>	P	SR41 Fossil Flora Locality 31	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous									
<a href="#">PA1168</a>	P	SR41 Fossil Flora Locality 32	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	<b>Agulla</b>	Cretaceous									
<a href="#">PA1169</a>	P	SR41 Fossil Flora Locality 33	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous									
<a href="#">PA1170</a>	P	SR41 Fossil Flora Locality 34	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous									
		<b>SR41 Fossil</b>																		

<a href="#">PA1171</a>	P	Flora Locality 35	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	Catskin Canyon	Cretaceous	
<a href="#">PA1172</a>	P	SR41 Fossil Flora Locality 36	Kern County	California	United States	North America	Cretaceous	Late Cretaceous	Panoche	CatTin Canyon	Cretaceous	

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 21

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**Query:** SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE ucmp\_coll = "M" and formation = "Panoche" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.i	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">16548.2</a>	Microfossils	Foraminifera					Cretaceous	A6833		Kings County	California	United States
<a href="#">21276</a>	Microfossils	Foraminifera				Late Cretaceous	Cretaceous	MF3558	Los Gatos Creek	Fresno County	California	United States
<a href="#">21278</a>	Microfossils	Foraminifera				Late Cretaceous	Cretaceous	MF3559	Los Gatos Creek	Fresno County	California	United States
<a href="#">21279</a>	Microfossils	Foraminifera				Late Cretaceous	Cretaceous	MF3559	Los Gatos Creek	Fresno County	California	United States
<a href="#">24418</a>	Microfossils					Late Cretaceous	Cretaceous	MF8294		Fresno County	California	United States
<a href="#">24419</a>	Microfossils					Late Cretaceous	Cretaceous	MF8295		Fresno County	California	United States
<a href="#">24421</a>	Microfossils					Late Cretaceous	Cretaceous	MF7922	Panoche Fm	Fresno County	California	United States
<a href="#">24422</a>	Microfossils					Late Cretaceous	Cretaceous	MF8297	Panoche Hills	Fresno County	California	United States
<a href="#">24423</a>	Microfossils					Late Cretaceous	Cretaceous	MF8298		Merced County	California	United States
<a href="#">24424</a>	Microfossils					Late Cretaceous	Cretaceous	MF8299		Merced County	California	United States
<a href="#">24427</a>	Microfossils					Late Cretaceous	Cretaceous	MF8301		Merced County	California	United States
<a href="#">24431</a>	Microfossils					Late Cretaceous	Cretaceous	MF7924	Panoche Fm	Fresno County	California	United States
<a href="#">24433</a>	Microfossils					Late Cretaceous	Cretaceous	MF8304		Kings County	California	United States
<a href="#">24434</a>	Microfossils					Late Cretaceous	Cretaceous	MF8306		Fresno County	California	United States
<a href="#">24435</a>	Microfossils					Late Cretaceous	Cretaceous	MF7923	Panoche Fm	Fresno County	California	United States
<a href="#">24436</a>	Microfossils					Late Cretaceous	Cretaceous	MF8294		Fresno County	California	United States
<a href="#">24437</a>	Microfossils					Late Cretaceous	Cretaceous	MF8304		Kings County	California	United States
<a href="#">24438</a>	Microfossils					Late Cretaceous	Cretaceous	MF7920		Fresno County	California	United States
<a href="#">24439</a>	Microfossils					Late Cretaceous	Cretaceous	MF8307		Fresno County	California	United States
<a href="#">24440</a>	Microfossils					Late Cretaceous	Cretaceous	MF8308		Merced County	California	United States
<a href="#">24442</a>	Microfossils					Late Cretaceous	Cretaceous	MF8308		Merced County	California	United States

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 17

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**Query:** SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE ucmp\_coll = "I" and formation = "Panoche" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">14179</a>	Invertebrates	Bivalvia	Cymbophora	stantoni			Cretaceous	IP12587		Fresno County	California	United States
<a href="#">14194</a>	Invertebrates	Bivalvia	Cymbophora	stantoni		Late Cretaceous	Cretaceous	IP12140		Fresno County	California	United States
<a href="#">14616</a>	Invertebrates	Bivalvia	Yaadia	leana			Cretaceous	IP12582		Merced County	California	United States
<a href="#">14618</a>	Invertebrates	Bivalvia	Yaadia	cf. Y. tryoniana			Cretaceous	IP12157		Kings County	California	United States
<a href="#">31505</a>	Invertebrates	Cephalopoda	Baculites	aff. B. yokoyamai		Late Cretaceous	Cretaceous	A6621		Merced County	California	United States
<a href="#">36433</a>	Invertebrates	Cephalopoda	Glyptoxoceras	indicum		Late Cretaceous	Cretaceous	A3826		Fresno County	California	United States
<a href="#">36434</a>	Invertebrates	Cephalopoda	Glyptoxoceras	indicum		Late Cretaceous	Cretaceous	A3826		Fresno County	California	United States
<a href="#">36435</a>	Invertebrates	Cephalopoda	Glyptoxoceras	indicum		Late Cretaceous	Cretaceous	A3826		Fresno County	California	United States
<a href="#">36436</a>	Invertebrates	Cephalopoda	Glyptoxoceras	indicum		Late Cretaceous	Cretaceous	A3826		Fresno County	California	United States
<a href="#">36437</a>	Invertebrates	Cephalopoda	Glyptoxoceras	indicum		Late Cretaceous	Cretaceous	A3826		Fresno County	California	United States
<a href="#">37604</a>	Invertebrates	Cephalopoda	Baculites	rex		Late Cretaceous	Cretaceous	A4890	Avenal Creek	Kings County	California	United States
<a href="#">51002</a>	Invertebrates	Bivalvia				Late Cretaceous	Cretaceous	D715		Merced County	California	United States
<a href="#">51003</a>	Invertebrates	Bivalvia	Corbula	cf. C. parilis		Late Cretaceous	Cretaceous	D715		Merced County	California	United States
<a href="#">555871</a>	Invertebrates	Bivalvia	Glycymeris	sp.		Late Cretaceous	Cretaceous	D715		Merced County	California	United States
<a href="#">555902</a>	Invertebrates	Bivalvia	Glycymeris	sp.		Late Cretaceous?	Cretaceous	9047-		Stanislaus County	California	United States
<a href="#">555990</a>	Invertebrates	Gastropoda	Tessarolax	teleos		Late Cretaceous	Cretaceous	A3837	Escarpado Canyon	Fresno County	California	United States
<a href="#">555991</a>	Invertebrates	Gastropoda	Tessarolax	cf. distorta		Late Cretaceous	Cretaceous	D745	Delta Pumping Plant Excavation	Alameda County	California	United States

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# UCMP UC Museum of Paleontology Specimens

Number of matches: 1

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**Query:** SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE ucmp\_coll = "V" and formation = "Panoche" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">70988</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V6670	Delta Pumping Plant	Contra Costa County	California	United States

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Provider	Items found	Items returned
Yale Peabody Museum - Invertebrate Paleontology	0	0
Yale Peabody Museum - Paleobotany	0	0
Yale Peabody Museum - Vertebrate Paleontology	0	0
San Diego Natural History Museum	0	0
Denver Museum of Nature and Science	0	0
Florida Museum of Natural History - Invertebrates	0	0
Florida Museum of Natural History - Vertebrates	0	0
University of Colorado Museum of Natural History Paleontology Collection	Error (Empty reply)	
American Museum of Natural History	Error (Invalid response: SYSTEM or PUBLIC, the URI is missing)	
MorphoBank.org	Error (Invalid response: Invalid document end)	
University of Iowa Paleontology Repository	0	0
Sam Noble Oklahoma Museum of Natural History - Paleontology	0	0
Paleontological Research Institution, Ithaca, New York	Error (Invalid response: Mismatched tag)	
University of Kansas Museum of Invertebrate Paleontology	0	0
University of California Museum of Paleontology	39	39

### Returned 39 records total

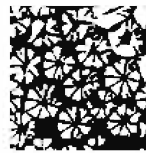
Institution	Collection	Cat. no.	Sci. name.	Element	Loc. no.	Country	State/prov	Period	Epoch	Info
UCMP	I	555902	Glycymeris		9047-	United States	California	Cretaceous	Late Cretaceous?	
UCMP	I	36433	Glyptoxoceras indicum		A3826	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	36434	Glyptoxoceras indicum		A3826	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	36435	Glyptoxoceras indicum		A3826	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	36436	Glyptoxoceras indicum		A3826	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	36437	Glyptoxoceras indicum		A3826	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	555990	Tessarolax teleos		A3837	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	37604	Baculites rex		A4890	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	31505	Baculites aff. B. yokoyamai		A6621	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	16548.2			A6833	United States	California	Cretaceous		
UCMP	I	51002	Corbulidae		D715	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	51003	Corbula cf. C. parilis		D715	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	555871	Glycymeris		D715	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	555991	Tessarolax cf. distorta		D745	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	14194	Cymbophora stantoni		IP12140	United States	California	Cretaceous	Late Cretaceous	
UCMP	I	14618	Yaadia cf. Y. tryoniana		IP12157	United States	California	Cretaceous		
UCMP	I	14616	Yaadia leana		IP12582	United States	California	Cretaceous		
UCMP	I	14179	Cymbophora stantoni		IP12587	United States	California	Cretaceous		
UCMP	M	21276	Foraminiferida		MF3558	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	21278	Globotruncanidae		MF3559	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	21279	Foraminiferida		MF3559	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24438			MF7920	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24421			MF7922	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24435			MF7923	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24431			MF7924	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24418			MF8294	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24436			MF8294	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24419			MF8295	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24422			MF8297	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24423			MF8298	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24424			MF8299	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24427			MF8301	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24433			MF8304	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24437			MF8304	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24434			MF8306	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24439			MF8307	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24440			MF8308	United States	California	Cretaceous	Late Cretaceous	
UCMP	M	24442			MF8308	United States	California	Cretaceous	Late Cretaceous	
UCMP	V	70988	Reptilia	TOOTH	V6670	United States	California	Cretaceous	Late Cretaceous	

### Returned 39 records total

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## LACMIP Specimen Catalog

locid	lotid	phylum	class	order	family	genus	subgenus	species	subspecies
1	10912 1	Mollusca	Gastropoda	Caenogastropoda	Hokkaidoconchidae	Hokkaidoconcha		morenoensis Keil, Campbell, Elder and Little, 2008	
2	10912 2	Mollusca	Gastropoda	Caenogastropoda	Hokkaidoconchidae	Hokkaidoconcha		morenoensis Keil, Campbell, Elder and Little, 2008	
3	10912 3	Mollusca	Gastropoda	Caenogastropoda	Hokkaidoconchidae	Hokkaidoconcha		morenoensis Keil, Campbell, Elder and Little, 2008	
4	10912 4	Mollusca	Gastropoda	Caenogastropoda	Hokkaidoconchidae	Hokkaidoconcha		morenoensis Keil, Campbell, Elder and Little, 2008	
5	10912 5	Mollusca	Gastropoda	Caenogastropoda	Hokkaidoconchidae	Hokkaidoconcha		morenoensis Keil, Campbell, Elder and Little, 2008	
6	10912 6	Mollusca	Gastropoda						
7	10912 7	Mollusca	Bivalvia	Veneroidea	Thyasiridae				
8	10912 8	Mollusca	Bivalvia	Nuculoidea	Nuculidae	Acila	(Truncacila)	demessa Finlay, 1927	
9	15868 1	Echinodermata	Echinoidea						
10	16241 1	Mollusca	Gastropoda	Archaeogastropoda	Trochidae	Garramites			
11	17876 1	Mollusca	Bivalvia	Hippuritoida					
12	17877 1	Mollusca	Bivalvia	Nuculoidea	Nuculidae	Acila			
13	17877 2	Mollusca	Bivalvia						
14	17878 1								
15	17878 2								
16	17878 3								
17	17878 4								
18	17878 5								
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41	17879 2							
42	17879 3							
43	17880 1							
44	17880 2							
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47	17880 5							
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51	17880 9							
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54	17880 12							
55	17880 13							
56	17880 14							
57	17880 15							
58	17880 16							
59	17881 1							
60	24183 1	Mollusca	Gastropoda	Neogastropoda	Volutidae	Volutoderma		jalama ? Saul and Squires, 2008
61	25522 1	Mollusca	Bivalvia	Veneroida	Veneridae	Calva	(Egelicalva)	spissa Saul and Popenoe, 1992
62	25524 1	Mollusca	Gastropoda	Neotaenioglossa	Turritellidae	Turritella		petersoni ? Merriam, 1941
63	25526 1	Mollusca	Bivalvia	Myoida	Corbulidae	Caestocorbula		attina Squires and Saul, 2004
64	25526 2	Mollusca	Bivalvia	Myoida	Corbulidae	Caestocorbula		attina Squires and Saul, 2004
65	25526 3	Mollusca	Bivalvia	Myoida	Corbulidae	Caestocorbula		attina Squires and Saul, 2004

66	25902 1	Mollusca	Gastropoda	Neotaenioglossa	Naticidae	Gyrodes	(Hypterita)	robsauli Popenoe	Saul and Susuki, 1987
67	25902 2	Mollusca	Gastropoda	Neotaenioglossa	Naticidae	Gyrodes	(Hypterita)	robsauli Popenoe	Saul and Susuki, 1987
68	25902 3	Mollusca	Gastropoda	Neotaenioglossa	Naticidae	Gyrodes	(Hypterita)	robsauli Popenoe	Saul and Susuki, 1987
69	26298 1	Mollusca	Bivalvia	Trigonioida	Trigoniidae	Yaadia		robusta Saul, 1978	
70	26337 1	Mollusca	Gastropoda	Neotaenioglossa	Naticidae	Gyrodes	(Hypterita)	robsauli Popenoe	Saul and Susuki, 1987
71	26337 2	Mollusca	Cephalopoda	Ammonoidea	Pachydiscidae	Anapachydiscus		cf. arrialoorensis (Stoliczka, 1865)	
72	26342 1	Mollusca	Bivalvia	Veneroidea	Astartidae	Opis	(Hesperopis)	triangulata (Cooper, 1894)	
73	26342 2	Mollusca	Bivalvia	Veneroidea	Astartidae	Opis	(Hesperopis)	triangulata (Cooper, 1894)	
74	26342 3	Mollusca	Bivalvia	Veneroidea	Astartidae	Opis	(Hesperopis)	triangulata (Cooper, 1894)	
75	26370 1	Mollusca	Bivalvia	Veneroidea	Veneridae	Calva	(Egelicalva)	spissa Saul and Popenoe, 1992	
76	26370 2	Mollusca	Gastropoda	Neotaenioglossa	Trichotropidae	Ariadnaria		aldersoni Saul and Squires, 2008	
77	26454 1	Mollusca	Gastropoda	Neotaenioglossa	Turritellidae	Turritella		webbi Saul, 1983	paynei Saul, 1983
78	26465 1	Mollusca	Gastropoda	Neotaenioglossa	Naticidae	Gyrodes	(Hypterita)	robsauli Popenoe	Saul and Susuki, 1987
79	26471 1	Mollusca	Gastropoda	Neogastropoda	Volutidae	Volutoderma		blakei Saul and Squires, 2008	
80	26496 1	Mollusca	Gastropoda	Neogastropoda	Perissityidae	Pseudocymia		cf aitha Popenoe and Saul, 1987	
81	26496 2	Mollusca	Gastropoda	Neogastropoda	Perissityidae	Pseudocymia		cf aitha Popenoe and Saul, 1987	
82	27018 1	Mollusca	Gastropoda	Neogastropoda	Volutidae	Longoconcha		eumeka Saul and Squires, 2008	
83	27266 1	Mollusca	Gastropoda	Neotaenioglossa	Aporrhaidae	Anchura ?			
84	27269 1	Mollusca	Bivalvia	Nuculoidea	Nuculidae	Acila			
85	28679 1	Mollusca	Bivalvia	Arcoida	Glycymerididae	Glycymeris		pacifica (Anderson, 1902)	
86	28788 1	Mollusca	Bivalvia	Veneroidea	Veneridae	Calva	(Calva)	heliaca Saul and Popenoe, 1992	
87	28788 2	Mollusca	Bivalvia	Veneroidea	Veneridae	Calva	(Calva)	heliaca Saul and Popenoe, 1992	
88	28788 3	Mollusca	Bivalvia	Veneroidea	Veneridae	Calva	(Calva)	heliaca Saul and Popenoe, 1992	
								heliaca Saul	

89	28788 4	Mollusca	Bivalvia	Veneroida	Veneridae	Calva	(Calva)	and Popenoe, 1992
90	28788 5	Mollusca	Bivalvia	Veneroida	Veneridae	Calva	(Calva)	heliaca Saul and Popenoe, 1992
91	28788 6	Mollusca	Gastropoda	Neotaenioglossa	Aporrhaidae	Latiala		heliaca Saul, 1998
92	28788 7	Mollusca	Gastropoda	Neotaenioglossa	Aporrhaidae	Latiala		heliaca Saul, 1998
93	28788 8	Mollusca	Gastropoda	Neotaenioglossa	Aporrhaidae	Latiala		heliaca Saul, 1998

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*Last update on February 24, 2005*


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Click on the Loc ID to see the full locality record

Loc ID	Coll	Locality Name	County	State / Province	Country	Cont	Period	Epoch	Formation	Member	Storage Age	Flora/Fauna
<a href="#">PA657</a>	P	Dosados Canyon I	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Terra Loma	Cretaceous	
<a href="#">PA1070</a>	P	Moreno Conifer	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Cretaceous	
<a href="#">V3621</a>	V	Siskiyou	Siskiyou County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V3622</a>	V	Puerto Canyon	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V3718</a>	V	Gustine	Stanislaus County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	t
<a href="#">V3735</a>	V	Panoche Hills 5t	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V3736</a>	V	Panoche Hills 6t	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V5605</a>	V	Mercy Creek	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Dos Palos Sh	Maastrichtian	
<a href="#">V5606</a>	V	Silver Creek 1t	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V5607</a>	V	Silver Creek 2t	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V5608</a>	V	Escarpado Canyon 1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V5609</a>	V	Escarpado Canyon 2	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V5610</a>	V	Escarpado Canyon 3t	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V5696</a>	V	Capito Canyon	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V5779</a>	V	Panoche Hills 1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V5780</a>	V	Panoche Hills 2	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V5781</a>	V	Panoche Hills 3	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V5872</a>	V	Panoche Hills 4	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V5878</a>	V	Capita Canyon 2	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V6214</a>	V	Right Angle Canyon	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Marca Shale	Maastrichtian	
<a href="#">V6418</a>	V	Laguna Seca Creek	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V6598</a>	V	Silver Creek 3	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V67238</a>	V	Rattlesnake Creek	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V69164</a>	V	Capita Canyon 3	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Dos Palos Sh	Maastrichtian	
		Marca	Fresno		United	North		Late		Marca		t

<a href="#">V69165</a>	v	Canyon	County	California	States	America	Cretaceous	Cretaceous	Moreno	Shale	Maastrichtian	
<a href="#">V72116</a>	v	Ortagalita Creek	Merced County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V75075</a>	v	King City E	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V77104</a>	v	Citt337	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V79052</a>	v	Staebler's Turtle 2	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V79053</a>	v	Dosados Canyon 1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Marca Shale	Maastrichtian	
<a href="#">V79088</a>	MV	Toxochelyid	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Dosados	Maastrichtian	
<a href="#">V82046</a>	v	Panoche Hills 7	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82056</a>	v	Panoche Hills 8	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82057</a>	v	Panoche Hills 9	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82058</a>	v	Panoche Hills 10	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82075</a>	v	Silver Creek 4	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82076</a>	v	Silver Creek 5	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82077</a>	v	Silver Creek 6	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82078</a>	v	Silver Creek 7	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82079</a>	v	Escarpado Canyon 4	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82080</a>	v	Panoche Hills 11	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82081</a>	v	Capita Canyon 4	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82282</a>	v	Dosados Canyon 2	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82283</a>	v	Silver Creek 8	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V82284</a>	v	Cantua Creek S 1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87002</a>	v	Right Angle Canyon 1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87003</a>	v	Right Angle Canyon 2	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87004</a>	v	Right Angle Canyon 3	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87005</a>	v	Right Angle Canyon 4	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma	Maastrichtian	

										Shale		
<a href="#">V87006</a>	v	Right Angle Canyon 5	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87007</a>	v	Silver Creek 9	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87008</a>	v	Silver Creek 10	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87009</a>	v	Silver Creek 11	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87010</a>	v	Silver Creek 12	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87011</a>	v	Panoche Hills 12	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87012</a>	v	Moreno Gulch 1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87013</a>	v	Panoche Hills 13	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V87014</a>	v	Panoche Hills 14	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90059</a>	v	No Name Canyon	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90060</a>	v	Escarpado Canyon 5	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90061</a>	v	Dosados Canyon North fork	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90062</a>	v	Silver Creek 21	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90063</a>	v	Silver Creek 22	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90064</a>	v	Silver Creek 23	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90065</a>	v	Silver Creek 24	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90066</a>	v	Silver Creek 13	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90067</a>	v	Silver Creek 14	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90068</a>	v	Silver Creek 15	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V90069</a>	v	Tumey Hills 1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91101</a>	v	Right Angle Canyon 6	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91102</a>	v	Right Angle Canyon 7	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Marca Shale	Maastrichtian	
<a href="#">V91103</a>	v	Capita Canyon	Fresno	California	United	North	Cretaceous	Late	Moreno	Tierra Loma	Maastrichtian	

		South	County		States	America		Cretaceous		Shale		
<a href="#">V91104</a>	v	Right Angle Canyon 8	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91105</a>	v	Silver Creek 16	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91106</a>	v	Silver Creek 17	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91107</a>	v	Silver Creek 18	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91108</a>	v	Silver Creek 19	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91109</a>	v	Silver Creek 20	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91110</a>	v	Tumey Hills 2	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91111</a>	v	Tumey Hills 3	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91112</a>	v	Tumey Hills 4	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91134</a>	v	Escarpado Canyon Hadrosaur	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Dos Palos Sh	Maastrichtian	
<a href="#">V91169</a>	v	Small Draw Mosasaur	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V91170</a>	v	Right Angle Canyon 9	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V92067</a>	v	Silver Creek E 1	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V92068</a>	v	Silver Creek E 2	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V92069</a>	v	Silver Creek E 3	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V92070</a>	v	Silver Creek S fish	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V92071</a>	v	Silver Creek S Shark	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Marca Shale	Maastrichtian	
<a href="#">V92082</a>	v	Capita Canyon West	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V92083</a>	v	Section 17 South	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V92084</a>	v	Section 17 North	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V93003</a>	v	Section 17 South A	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V93004</a>	v	Section 17 South B	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V93005</a>	v	Section 17	Fresno	California	United	North	Cretaceous	Late	Moreno	Tierra Loma	Maastrichtian	



		South C	County		States	America		Cretaceous		Shale		
<a href="#">V93006</a>	v	Section 31 West	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V93007</a>	v	Section 18 East	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V93008</a>	v	Silver Creek Section 29 General	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno		Maastrichtian	
<a href="#">V93009</a>	v	Section 17 South D	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	
<a href="#">V93010</a>	v	Section 29 West A	Fresno County	California	United States	North America	Cretaceous	Late Cretaceous	Moreno	Tierra Loma Shale	Maastrichtian	

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**Query:** SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE ucmp\_coll = "P" and formation = "Moreno" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">150354</a>	Plants	Gymnospermopsida	Araucaria			Late Cretaceous	Cretaceous	PA258	Little Salado Canyon	Stanislaus County	California	United States
<a href="#">398145</a>	Plants	Gymnospermopsida	Margeriella			Late Cretaceous	Cretaceous	PA1070	Moreno Conifer	Fresno County	California	United States
<a href="#">398146</a>	Plants	Gymnospermopsida	Margeriella			Late Cretaceous	Cretaceous	PA1070	Moreno Conifer	Fresno County	California	United States
<a href="#">398147</a>	Plants	Gymnospermopsida	Margeriella			Late Cretaceous	Cretaceous	PA1070	Moreno Conifer	Fresno County	California	United States

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**Query:** SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE ucmp\_coll = "M" and formation = "Moreno" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">6712</a>	Microfossils	Foraminifera				Late Cretaceous	Cretaceous	A6692		San Joaquin County	California	United States
<a href="#">7625</a>	Microfossils	Foraminifera	Anomalina				Cretaceous	MF6700	Moreno Fm		California	United States
<a href="#">8216</a>	Microfossils	Foraminifera	Bulimina				Cretaceous	MF6700	Moreno Fm		California	United States
<a href="#">16124</a>	Microfossils	Foraminifera				Late Cretaceous	Cretaceous	A1890		San Luis Obispo County	California	United States
<a href="#">16125</a>	Microfossils	Foraminifera				Late Cretaceous	Cretaceous	A1890		San Luis Obispo County	California	United States
<a href="#">23208</a>	Microfossils	Foraminifera	Bathysiphon	dubia		Late Cretaceous	Cretaceous	MF7662	Moreno Gulch	Fresno County	California	United States
<a href="#">23209</a>	Microfossils	Foraminifera	Bathysiphon			Late Cretaceous	Cretaceous	MF7663	Moreno Gulch	Fresno County	California	United States
<a href="#">23210</a>	Microfossils	Foraminifera	Psammosphaera	laevigata		Late Cretaceous	Cretaceous	MF7664	Moreno Gulch	Fresno County	California	United States
<a href="#">23211</a>	Microfossils	Foraminifera	Pelosina	complanata		Late Cretaceous	Cretaceous	MF7665	Moreno Gulch	Fresno County	California	United States
<a href="#">23212</a>	Microfossils	Foraminifera	Hyperammina	elongata		Late Cretaceous	Cretaceous	MF7666	Moreno Gulch	Fresno County	California	United States
<a href="#">23213</a>	Microfossils	Foraminifera	Saccorhiza	ramosa		Late Cretaceous	Cretaceous	MF7667	Moreno Gulch	Fresno County	California	United States
<a href="#">23214</a>	Microfossils	Foraminifera	Glomospira	gordialis		Late Cretaceous	Cretaceous	MF7668	Moreno Gulch	Fresno County	California	United States
<a href="#">i23215</a>	Microfossils	Foraminifera	Involutina	irregularis		Late Cretaceous	Cretaceous	MF7669	Moreno Gulch	Fresno County	California	United States
<a href="#">i23216</a>	Microfossils	Foraminifera	Glomospira	charoides		Late Cretaceous	Cretaceous	MF7669	Moreno Gulch	Fresno County	California	United States
<a href="#">23217</a>	Microfossils	Foraminifera	Glomospira	charoides	corona var.	Late Cretaceous	Cretaceous	MF7670	Moreno Gulch	Fresno County	California	United States
<a href="#">i23218</a>	Microfossils	Foraminifera	Involutina	glabratus		Late Cretaceous	Cretaceous	MF7671	Moreno Gulch	Fresno County	California	United States
<a href="#">i23219</a>	Microfossils	Foraminifera	Nodellum	velascoensis		Late Cretaceous	Cretaceous	MF7669	Moreno Gulch	Fresno County	California	United States
<a href="#">23220</a>	Microfossils	Foraminifera	Trochamminoides	proteus		Late Cretaceous	Cretaceous	MF7672	Moreno Gulch	Fresno County	California	United States
<a href="#">i23221</a>	Microfossils	Foraminifera	Haplophragmoides	calcula		Late Cretaceous	Cretaceous	MF7673	Moreno Gulch	Fresno County	California	United States
<a href="#">i23222</a>	Microfossils	Foraminifera	Haplophragmoides	excavata		Late Cretaceous	Cretaceous	MF7663	Moreno Gulch	Fresno County	California	United States
<a href="#">23223</a>	Microfossils	Foraminifera	Haplophragmoides	glabra		Late Cretaceous	Cretaceous	MF7666	Moreno Gulch	Fresno County	California	United States
<a href="#">23224</a>	Microfossils	Foraminifera	Haplophragmoides	impensus		Late Cretaceous	Cretaceous	MF7675	Moreno Gulch	Fresno County	California	United States
<a href="#">23225</a>	Microfossils	Foraminifera	Haplophragmoides	incognatus		Late Cretaceous	Cretaceous	MF7676	Moreno Gulch	Fresno County	California	United States
<a href="#">23226</a>	Microfossils	Foraminifera	Haplophragmoides	kirki		Late Cretaceous	Cretaceous	MF7677	Moreno Gulch	Fresno County	California	United States
<a href="#">23227</a>	Microfossils	Foraminifera	Haplophragmoides	trifolium		Late Cretaceous	Cretaceous	MF7672	Moreno Gulch	Fresno County	California	United States
<a href="#">23228</a>	Microfossils	Foraminifera	Cribrostomoides	cretacea		Late Cretaceous	Cretaceous	MF7678	Moreno Gulch	Fresno County	California	United States
<a href="#">i23229</a>	Microfossils	Foraminifera	Spiroplectammina	chicoana		Late Cretaceous	Cretaceous	MF7672	Moreno Gulch	Fresno County	California	United States
<a href="#">23230</a>	Microfossils	Foraminifera	Spiroplectammina	perplexa		Late Cretaceous	Cretaceous	MF7679	Moreno Gulch	Fresno County	California	United States
<a href="#">23231</a>	Microfossils	Foraminifera	Verneuilina	muensteri		Late Cretaceous	Cretaceous	MF7680	Moreno Gulch	Fresno County	California	United States

<a href="#">23232</a>	Microfossils	Foraminifera	Gaudryina	laevigata		Late Cretaceous	Cretaceous	MF7681	Moreno Gulch	Fresno County	California	United States
<a href="#">23233</a>	Microfossils	Foraminifera	Gaudryina	pyramidata		Late Cretaceous	Cretaceous	MF7682	Moreno Gulch	Fresno County	California	United States
<a href="#">23234</a>	Microfossils	Foraminifera	Gaudryina	rudita		Late Cretaceous	Cretaceous	MF7683	Moreno Gulch	Fresno County	California	United States
<a href="#">23235</a>	Microfossils	Foraminifera	Gaudryina	rudita	diversa	Late Cretaceous	Cretaceous	MF7684	Moreno Gulch	Fresno County	California	United States
<a href="#">23236</a>	Microfossils	Foraminifera	Pseudogaudryinella	capitosa		Late Cretaceous	Cretaceous	MF7685	Moreno Gulch	Fresno County	California	United States
<a href="#">23237</a>	Microfossils	Foraminifera	Clavulinoides	trilaterus		Late Cretaceous	Cretaceous	MF7681	Moreno Gulch	Fresno County	California	United States
<a href="#">23238</a>	Microfossils	Foraminifera	Eggerella	obscura		Late Cretaceous	Cretaceous	MF7681	Moreno Gulch	Fresno County	California	United States
<a href="#">23239</a>	Microfossils	Foraminifera	Dorothia	bulletta		Late Cretaceous	Cretaceous	MF7681	Moreno Gulch	Fresno County	California	United States
<a href="#">23240</a>	Microfossils	Foraminifera	Marssonella	indentata		Late Cretaceous	Cretaceous	MF7684	Moreno Gulch	Fresno County	California	United States
<a href="#">23241j</a>	Microfossils	Foraminifera	Marssonella	oxycona		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23242</a>	Microfossils	Foraminifera	Trochammina	ribstonensis		Late Cretaceous	Cretaceous	MF7663	Moreno Gulch	Fresno County	California	United States
<a href="#">23243</a>	Microfossils	Foraminifera	Rzehakina	epigona	minima	Late Cretaceous	Cretaceous	MF7687	Moreno Gulch	Fresno County	California	United States
<a href="#">23244</a>	Microfossils	Foraminifera	Silicosigmoilina	californica		Late Cretaceous	Cretaceous	MF7688	Moreno Gulch	Fresno County	California	United States
<a href="#">23245</a>	Microfossils	Foraminifera	Nodosaria	spinifera		Late Cretaceous	Cretaceous	MF7689	Laguna Seca Creek	Merced County	California	United States
<a href="#">23246</a>	Microfossils	Foraminifera	Nodosaria	velascoensis		Late Cretaceous	Cretaceous	MF7690	Laguna Seca Creek	Merced County	California	United States
<a href="#">23247</a>	Microfossils	Foraminifera	Nodosaria			Late Cretaceous	Cretaceous	MF7691	Moreno Gulch	Fresno County	California	United States
<a href="#">23248</a>	Microfossils	Foraminifera	Pseudonodosaria	larva		Late Cretaceous	Cretaceous	MF7692	Moreno Gulch	Fresno County	California	United States
<a href="#">23249</a>	Microfossils	Foraminifera	Dentalina	aculeata		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23250</a>	Microfossils	Foraminifera	Lingulina	californiensis		Late Cretaceous	Cretaceous	MF7672	Moreno Gulch	Fresno County	California	United States
<a href="#">23251</a>	Microfossils	Foraminifera	Lagena	acuticosta	proboscidualis	Late Cretaceous	Cretaceous	MF7693	Moreno Gulch	Fresno County	California	United States
<a href="#">23252</a>	Microfossils	Foraminifera	Lagena	amphora	paucicosta	Late Cretaceous	Cretaceous	MF7684	Moreno Gulch	Fresno County	California	United States
<a href="#">23253</a>	Microfossils	Foraminifera	Lagena	hispida		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23254</a>	Microfossils	Foraminifera	Oolina	simplex		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23255</a>	Microfossils	Foraminifera	Fissurina	orbignyana		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23256</a>	Microfossils	Foraminifera	Marginulina	campbelli		Late Cretaceous	Cretaceous	MF7694	Laguna Seca Creek	Merced County	California	United States
<a href="#">23257</a>	Microfossils	Foraminifera	Marginulina	curvisapta		Late Cretaceous	Cretaceous	MF7678	Moreno Gulch	Fresno County	California	United States
<a href="#">23258</a>	Microfossils	Foraminifera	Astaculus	jarvisi		Late Cretaceous	Cretaceous	MF7695	Moreno Gulch	Fresno County	California	United States
<a href="#">23259</a>	Microfossils	Foraminifera	Lenticulina	almgreni		Late Cretaceous	Cretaceous	MF7689	Laguna Seca Creek	Merced County	California	United States
<a href="#">23260</a>	Microfossils	Foraminifera	Lenticulina	nuda		Late Cretaceous	Cretaceous	MF7681	Moreno Gulch	Fresno County	California	United States
<a href="#">23261</a>	Microfossils	Foraminifera	Lenticulina	praeconvergens		Late Cretaceous	Cretaceous	MF7696	Moreno Gulch	Fresno County	California	United States
<a href="#">23262</a>	Microfossils	Foraminifera	Lenticulina	rectovalis		Late Cretaceous	Cretaceous	MF7697	Moreno Gulch	Fresno County	California	United States
<a href="#">23263</a>	Microfossils	Foraminifera	Lenticulina	rotulata		Late Cretaceous	Cretaceous	MF7698	Moreno Gulch	Fresno County	California	United States
<a href="#">23264</a>	Microfossils	Foraminifera	Lenticulina	schencki		Late Cretaceous	Cretaceous	MF7698	Moreno Gulch	Fresno County	California	United States
<a href="#">23265</a>	Microfossils	Foraminifera	Lenticulina	velascoensis		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23266</a>	Microfossils	Foraminifera	Lenticulina			Late Cretaceous	Cretaceous	MF7698	Moreno Gulch	Fresno County	California	United States
<a href="#">23267</a>	Microfossils	Foraminifera	Robulus	modestus		Late Cretaceous	Cretaceous	MF7684	Moreno Gulch	Fresno County	California	United States

<a href="#">23268</a>	Microfossils	Foraminifera	Robulus	pseudoligostegius		Late Cretaceous	Cretaceous	MF7673	Moreno Gulch	Fresno County	California	United States
<a href="#">23269</a>	Microfossils	Foraminifera	Robulus			Late Cretaceous	Cretaceous	MF7699	Moreno Gulch	Fresno County	California	United States
<a href="#">23270</a>	Microfossils	Foraminifera	Saracenaria	acutauricularis		Late Cretaceous	Cretaceous	MF7698	Moreno Gulch	Fresno County	California	United States
<a href="#">23271</a>	Microfossils	Foraminifera	Planularia	mirabilis		Late Cretaceous	Cretaceous	MF7692	Moreno Gulch	Fresno County	California	United States
<a href="#">23272</a>	Microfossils	Foraminifera	Neoflabellina	pilulifera		Late Cretaceous	Cretaceous	MF7689	Laguna Seca Creek	Merced County	California	United States
<a href="#">23273</a>	Microfossils	Foraminifera	Neoflabellina	rugosa		Late Cretaceous	Cretaceous	MF7698	Moreno Gulch	Fresno County	California	United States
<a href="#">23274</a>	Microfossils	Foraminifera	Globulina	lacrima	subsphearica	Late Cretaceous	Cretaceous	MF7689	Laguna Seca Creek	Merced County	California	United States
<a href="#">23275</a>	Microfossils	Foraminifera	Apiopterina	cylindroides		Late Cretaceous	Cretaceous	MF7700	Moreno Gulch	Fresno County	California	United States
<a href="#">23276</a>	Microfossils	Foraminifera	Nodosarella	gracillima		Late Cretaceous	Cretaceous	MF7681	Moreno Gulch	Fresno County	California	United States
<a href="#">23277</a>	Microfossils	Foraminifera	Ellipsonodosaria	subnodosa		Late Cretaceous	Cretaceous	MF7701	Moreno Gulch	Fresno County	California	United States
<a href="#">23278</a>	Microfossils	Foraminifera	Ellipsoglandulina	velascoensis		Late Cretaceous	Cretaceous	MF7700	Moreno Gulch	Fresno County	California	United States
<a href="#">23279</a>	Microfossils	Foraminifera	Pullenia	jarvisi		Late Cretaceous	Cretaceous	MF7698	Moreno Gulch	Fresno County	California	United States
<a href="#">23280</a>	Microfossils	Foraminifera	Globigerina			Late Cretaceous	Cretaceous	MF7693	Moreno Gulch	Fresno County	California	United States
<a href="#">23281</a>	Microfossils	Foraminifera	Globigerina	psuedobulloides		Late Cretaceous	Cretaceous	MF7702	Moreno Gulch	Fresno County	California	United States
<a href="#">23282</a>	Microfossils	Foraminifera	Globigerina	triloculinoides		Late Cretaceous	Cretaceous	MF7702	Moreno Gulch	Fresno County	California	United States
<a href="#">23283</a>	Microfossils	Foraminifera	Globigerinoides	daubjergens		Late Cretaceous	Cretaceous	MF7702	Moreno Gulch	Fresno County	California	United States
<a href="#">23284</a>	Microfossils	Foraminifera	Globotruncana	arca		Late Cretaceous	Cretaceous	MF7703	Moreno Gulch	Fresno County	California	United States
<a href="#">23285</a>	Microfossils	Foraminifera	Globotruncana	goudkoffi		Late Cretaceous	Cretaceous	MF7700	Moreno Gulch	Fresno County	California	United States
<a href="#">23286</a>	Microfossils	Foraminifera	Globotruncana	linneiani	tricarinata	Late Cretaceous	Cretaceous	MF7680	Moreno Gulch	Fresno County	California	United States
<a href="#">23287</a>	Microfossils	Foraminifera	Globotruncana	linneiana		Late Cretaceous	Cretaceous	MF7704	Moreno Gulch	Fresno County	California	United States
<a href="#">23288</a>	Microfossils	Foraminifera	Globotruncana	mariai		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23289</a>	Microfossils	Foraminifera	Globotruncana	riojai		Late Cretaceous	Cretaceous	MF7672	Moreno Gulch	Fresno County	California	United States
<a href="#">23290</a>	Microfossils	Foraminifera	Globotruncana	rosetta		Late Cretaceous	Cretaceous	MF7695	Moreno Gulch	Fresno County	California	United States
<a href="#">23291</a>	Microfossils	Foraminifera	Rugoglobigerina	rugosa		Late Cretaceous	Cretaceous	MF7693	Moreno Gulch	Fresno County	California	United States
<a href="#">23292</a>	Microfossils	Foraminifera	Planomalina	aspera		Late Cretaceous	Cretaceous	MF7672	Moreno Gulch	Fresno County	California	United States
<a href="#">23293</a>	Microfossils	Foraminifera	Planomalina	alvarezi		Late Cretaceous	Cretaceous	MF7681	Moreno Gulch	Fresno County	California	United States
<a href="#">23294</a>	Microfossils	Foraminifera	Heterohelix	globulosa		Late Cretaceous	Cretaceous	MF7693	Moreno Gulch	Fresno County	California	United States
<a href="#">23295</a>	Microfossils	Foraminifera	Heterohelix	striata		Late Cretaceous	Cretaceous	MF7693	Moreno Gulch	Fresno County	California	United States
<a href="#">23296</a>	Microfossils	Foraminifera	Heterohelix	pulchra		Late Cretaceous	Cretaceous	MF7671	Moreno Gulch	Fresno County	California	United States
<a href="#">i23297</a>	Microfossils	Foraminifera	Gublerina	ornatissima		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23298</a>	Microfossils	Foraminifera	Bulimina	joaquinensis		Late Cretaceous	Cretaceous	MF7705	Moreno Gulch	Fresno County	California	United States
<a href="#">i23299</a>	Microfossils	Foraminifera	Bulimina	aspera		Late Cretaceous	Cretaceous	MF7689	Laguna Seca Creek	Merced County	California	United States
<a href="#">23300</a>	Microfossils	Foraminifera	Bulimina	prolixa		Late Cretaceous	Cretaceous	MF7706	Moreno Gulch	Fresno County	California	United States
<a href="#">23301</a>	Microfossils	Foraminifera	Bulimina	reussi		Late Cretaceous	Cretaceous	MF7686	Moreno Gulch	Fresno County	California	United States
<a href="#">23302</a>	Microfossils	Foraminifera	Bulimina	spinata		Late Cretaceous	Cretaceous	MF7689	Laguna Seca Creek	Merced County	California	United States

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Query: SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE ucmp\_coll = "I" and formation = "Moreno" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">12073</a>	Invertebrates	Bivalvia	Lima	appressa		Late Cretaceous	Cretaceous	IP12786		Merced County	California	United States
<a href="#">15450</a>	Invertebrates	Cephalopoda	Turrilites	excelsus		Late Cretaceous	Cretaceous	A3158		Stanislaus County	California	United States
<a href="#">30020</a>	Invertebrates	Cephalopoda	Eubaculites	ootacodensis			Cretaceous	B4163	Silver Creek	San Benito County	California	United States
<a href="#">30021</a>	Invertebrates	Cephalopoda	Eubaculites	ootacodensis			Cretaceous	B4163	Silver Creek	San Benito County	California	United States
<a href="#">32758</a>	Invertebrates	Cephalopoda	Baculites	columna		Late Cretaceous	Cretaceous	A4684		Merced County	California	United States
<a href="#">32759</a>	Invertebrates	Cephalopoda	Baculites	columna		Late Cretaceous	Cretaceous	A4684		Merced County	California	United States
<a href="#">32844</a>	Invertebrates	Cephalopoda	Anagaudryceras	mikobokense		Late Cretaceous	Cretaceous	B4149	Butano Ridge	Merced County	California	United States
<a href="#">33521</a>	Invertebrates	Cephalopoda	Baculites?	aff. B. teres		Late Cretaceous	Cretaceous	A4684		Merced County	California	United States
<a href="#">33522</a>	Invertebrates	Cephalopoda	Baculites?	aff. B. teres	i	Late Cretaceous	Cretaceous	A4684		Merced County	California	United States
<a href="#">34575</a>	Invertebrates	Cephalopoda	Pachydiscus	cf. P. egertoni		Late Cretaceous	Cretaceous	B4149	Butano Ridge	Merced County	California	United States
<a href="#">34579</a>	Invertebrates	Cephalopoda	Anagaudryceras	mikobokense		Late Cretaceous	Cretaceous	B4149	Butano Ridge	Merced County	California	United States
<a href="#">34580</a>	Invertebrates	Cephalopoda	Anagaudryceras	mikobokense		Late Cretaceous	Cretaceous	B4149	Butano Ridge	Merced County	California	United States
<a href="#">36440</a>	Invertebrates	Cephalopoda	Baculites	columna		Late Cretaceous	Cretaceous	A4684		Merced County	California	United States
<a href="#">37501</a>	Invertebrates	Gastropoda	Nerinea	robertiana		Late Cretaceous	Cretaceous	IP12871		Merced County	California	United States
<a href="#">37995</a>	Invertebrates	Gastropoda	Perissitys	stantoni		Late Cretaceous	Cretaceous	A3216		Merced County	California	United States
<a href="#">50021</a>	Invertebrates	Gastropoda	Trajanella?	sp.		Late Cretaceous	Cretaceous	A4991		Stanislaus County	California	United States
<a href="#">51062</a>	Invertebrates	Gastropoda	Bulbificopsis	garza		Late Cretaceous	Cretaceous	A4684		Merced County	California	United States
<a href="#">555860</a>	Invertebrates	Gastropoda	Nerita	sp.		Late Cretaceous	Cretaceous	A3224		Merced County	California	United States
<a href="#">555876</a>	Invertebrates	Bivalvia	Glycymeris	sp.		Late Cretaceous	Cretaceous	A4684		Merced County	California	United States
<a href="#">555879</a>	Invertebrates	Bivalvia	Glycymeris	sp.		Late Cretaceous	Cretaceous	A3224		Merced County	California	United States
<a href="#">555892</a>	Invertebrates	Bivalvia	Glycymeris	sp.		Late Cretaceous	Cretaceous	A3160	Quinto Creek	Merced County	California	United States
<a href="#">555901</a>	Invertebrates	Bivalvia	Glycymeris	sp.		Late Cretaceous	Cretaceous	A3168	Garzas Creek	Stanislaus County	California	United States
<a href="#">555904</a>	Invertebrates		Curcioula cf.			Late Cretaceous	Cretaceous	A3224		Merced County	California	United States
<a href="#">556993</a>	invertebrates	Malacostraca	Archeopus			Late Cretaceous	Cretaceous	B4149	Butano Ridge	Merced County	California	United States

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**UC Museum of Paleontology Specimens**

Number of matches: 87

- [Download your results](#) (tab-delimited text file with .xls file extension, 87 lines, file size = 11.1 K)

Query: SELECT spec\_id,specno,ucmp\_coll,class,genus,species,subspecies,epoch,period,loc\_ID\_num,loc\_name,county\_std,state\_prov\_std,country\_std,pic FROM ucmp2 WHERE ucmp\_coll = "V" and formation = "Moreno" ORDER BY cast(specno as unsigned integer)

UCMP Catalog No.	UCMP Coll.	Class	Genus	Species	Subspecies	Epoch	Period	Loc. Number	Locality Name	County	State/Province	Country
<a href="#">32778</a>	Vertebrates	Reptilia	Plotosaurus	bennisoni		Late Cretaceous	Cretaceous	V3718	Gustine	Stanislaus County	California	United States
<a href="#">32935</a>	Vertebrates	Chondrichthyes	Odontaspis			Late Cretaceous	Cretaceous	V3621	Siskiyou	Siskiyou County	California	United States
<a href="#">32943</a>	Vertebrates	Reptilia	Plotosaurus	tuckeri		Late Cretaceous	Cretaceous	V3622	Puerto Canyon	Stanislaus County	California	United States
<a href="#">32944</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V3622	Puerto Canyon	Stanislaus County	California	United States
<a href="#">33912</a>	Vertebrates	Reptilia	Hydrotherosaurus	alexandrae		Late Cretaceous	Cretaceous	V3735	Panoche Hills 5	Fresno County	California	United States
<a href="#">33913</a>	Vertebrates	Reptilia	Plotosaurus	tuckeri		Late Cretaceous	Cretaceous	V3736	Panoche Hills 6	Fresno County	California	United States
<a href="#">33914</a>	Vertebrates	Osteichthyes	Enchodus			Late Cretaceous	Cretaceous	V3735	Panoche Hills 5	Fresno County	California	United States
<a href="#">36050</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V75075	King City E	Fresno County	California	United States
<a href="#">40172</a>	Vertebrates	Reptilia	Morenosaurus	stocki		Late Cretaceous	Cretaceous	V77104	Cit 337	Fresno County	California	United States
<a href="#">45298</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V5605	Mercy Creek	Fresno County	California	United States
<a href="#">45299</a>	Vertebrates	Reptilia	Plotosaurus	tuckeri		Late Cretaceous	Cretaceous	V5607	Silver Creek 2	Fresno County	California	United States
<a href="#">45300</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V5606	Silver Creek 1	Fresno County	California	United States
<a href="#">45301</a>	Vertebrates	Reptilia	Plotosaurus	tuckeri		Late Cretaceous	Cretaceous	V5608	Escarpado Canyon 1	Fresno County	California	United States
<a href="#">45302</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V5609	Escarpado Canyon 2	Fresno County	California	United States
<a href="#">45303</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V5610	Escarpado Canyon 3	Fresno County	California	United States
<a href="#">57551</a>	Vertebrates	Chondrichthyes	Heptranchias			Late Cretaceous	Cretaceous	V3735	Panoche Hills 5	Fresno County	California	United States
<a href="#">57552</a>	Vertebrates	Chondrichthyes	Heptranchias			Late Cretaceous	Cretaceous	V3735	Panoche Hills 5	Fresno County	California	United States
<a href="#">57581</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V5779	Panoche Hills 1	Fresno County	California	United States
<a href="#">57582</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V5872	Panoche Hills 4	Fresno County	California	United States
<a href="#">57671</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V5696	Capito Canyon	Fresno County	California	United States
<a href="#">57672</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V5696	Capito Canyon	Fresno County	California	United States
<a href="#">57673</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V5780	Panoche Hills 2	Fresno County	California	United States
<a href="#">57674</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V5781	Panoche Hills 3	Fresno County	California	United States
<a href="#">57675</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V5779	Panoche Hills 1	Fresno County	California	United States
<a href="#">57676</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V5696	Capito Canyon	Fresno County	California	United States
<a href="#">65101</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V6214	Right Angle Canyon	Fresno County	California	United States
<a href="#">66993</a>	Vertebrates	Reptilia	Morenosaurus	stocki		Late Cretaceous	Cretaceous	V6418	Laguna Seca Creek	Merced County	California	United States
<a href="#">71068</a>	Vertebrates	Osteichthyes				Late Cretaceous	Cretaceous	V6598	Silver Creek 3	Fresno County	California	United States
<a href="#">71069</a>	Vertebrates	Osteichthyes				Late Cretaceous	Cretaceous	V6598	Silver Creek 3	Fresno County	California	United States
<a href="#">79686</a>	Vertebrates	Osteichthyes				Late Cretaceous	Cretaceous	V67238	Rattlesnake Creek	Merced County	California	United States
<a href="#">79687</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V67238	Rattlesnake Creek	Merced County	California	United States
<a href="#">79688</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V67238	Rattlesnake Creek	Merced County	California	United States
<a href="#">123438</a>	Vertebrates	Osteichthyes				Late Cretaceous	Cretaceous	V79052	Staebler's Turtle 2	Fresno County	California	United States

<a href="#">123439</a>	Vertebrates	Osteichthyes				Late Cretaceous	Cretaceous	V79052	Staebler's Turtle 2	Fresno County	California	United States
<a href="#">123440</a>	Vertebrates	Osteichthyes				Late Cretaceous	Cretaceous	V79053	Dosados Canyon 1	Fresno County	California	United States
<a href="#">123616</a>	Vertebrates	Reptilia	Euclestes			Late Cretaceous	Cretaceous	V79088	Toxochelyid	Fresno County	California	United States
<a href="#">125973</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82046	Panoche Hills 7	Fresno County	California	United States
<a href="#">126276</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82080	Panoche Hills 11	Fresno County	California	United States
<a href="#">126277</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82056	Panoche Hills 8	Fresno County	California	United States
<a href="#">126278</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82057	Panoche Hills 9	Fresno County	California	United States
<a href="#">126279</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82058	Panoche Hills 10	Fresno County	California	United States
<a href="#">126280</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82081	Capita Canyon 4	Fresno County	California	United States
<a href="#">126281</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82079	Escarpado Canyon 4	Fresno County	California	United States
<a href="#">126282</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82078	Silver Creek 7	Fresno County	California	United States
<a href="#">126283</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82076	Silver Creek 5	Fresno County	California	United States
<a href="#">126284</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V82075	Silver Creek 4	Fresno County	California	United States
<a href="#">126285</a>	Vertebrates	Osteichthyes				Late Cretaceous	Cretaceous	V82077	Silver Creek 6	Fresno County	California	United States
<a href="#">126714</a>	Vertebrates	Osteichthyes	Saurodon			Late Cretaceous	Cretaceous	V82283	Silver Creek 8	Fresno County	California	United States
<a href="#">126715</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82282	Dosados Canyon 2	Fresno County	California	United States
<a href="#">126716</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V82284	Cantua Creek S 1	Fresno County	California	United States
<a href="#">126717</a>	Vertebrates	Reptilia	Basilemys			Late Cretaceous	Cretaceous	V79052	Staebler's Turtle 2	Fresno County	California	United States
<a href="#">131800</a>	Vertebrates	Chondrichthyes				Late Cretaceous	Cretaceous	V87002	Right Angle Canyon 1	Fresno County	California	United States
<a href="#">131801</a>	Vertebrates	Chondrichthyes				Late Cretaceous	Cretaceous	V87004	Right Angle Canyon 3	Fresno County	California	United States
<a href="#">131802</a>	Vertebrates	Chondrichthyes				Late Cretaceous	Cretaceous	V87010	Silver Creek 12	Fresno County	California	United States
<a href="#">131803</a>	Vertebrates	Chondrichthyes				Late Cretaceous	Cretaceous	V87012	Moreno Gulch 1	Fresno County	California	United States
<a href="#">131804</a>	Vertebrates	Chondrichthyes				Late Cretaceous	Cretaceous	V87013	Panoche Hills 13	Fresno County	California	United States
<a href="#">131805</a>	Vertebrates	Chondrichthyes				Late Cretaceous	Cretaceous	V87014	Panoche Hills 14	Fresno County	California	United States
<a href="#">131806</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V87003	Right Angle Canyon 2	Fresno County	California	United States
<a href="#">131807</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V87006	Right Angle Canyon 5	Fresno County	California	United States
<a href="#">131808</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V87007	Silver Creek 9	Fresno County	California	United States
<a href="#">131809</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V87008	Silver Creek 10	Fresno County	California	United States
<a href="#">131810</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V87009	Silver Creek 11	Fresno County	California	United States
<a href="#">131811</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V87011	Panoche Hills 12	Fresno County	California	United States
<a href="#">131812</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V87005	Right Angle Canyon 4	Fresno County	California	United States
<a href="#">137219</a>	Vertebrates	Osteichthyes	Encodus	ferox		Late Cretaceous	Cretaceous	V6418	Laguna Seca Creek	Merced County	California	United States
<a href="#">137220</a>	Vertebrates	Osteichthyes	Encodus	ferox		Late Cretaceous	Cretaceous	V6418	Laguna Seca Creek	Merced County	California	United States
<a href="#">137221</a>	Vertebrates	Osteichthyes	Encodus	ferox		Late Cretaceous	Cretaceous	V6418	Laguna Seca Creek	Merced County	California	United States
<a href="#">137222</a>	Vertebrates	Osteichthyes	Encodus	ferox		Late Cretaceous	Cretaceous	V6418	Laguna Seca Creek	Merced County	California	United States
<a href="#">137223</a>	Vertebrates	Osteichthyes	Encodus	ferox		Late Cretaceous	Cretaceous	V6418	Laguna Seca Creek	Merced County	California	United States
<a href="#">137224</a>	Vertebrates	Osteichthyes	Protosphyraena	gladius		Late Cretaceous	Cretaceous	V82057	Panoche Hills 9	Fresno County	California	United States
<a href="#">137237</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V91102	Right Angle Canyon 7	Fresno County	California	United States
<a href="#">137242</a>	Vertebrates	Reptilia				Late	Cretaceous	V91134	Escarpado Canyon	Fresno	California	United

						Cretaceous			Hadrosaur	County		States
<a href="#">137245</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V91107	Silver Creek 18	Fresno County	California	United States
<a href="#">137246</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V91111	Tumey Hills 3	Fresno County	California	United States
<a href="#">137247</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V91106	Silver Creek 17	Fresno County	California	United States
<a href="#">137248</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V91106	Silver Creek 17	Fresno County	California	United States
<a href="#">137249</a>	Vertebrates	Reptilia	Plesiotylosaurus	crassidens		Late Cretaceous	Cretaceous	V91169	Small Draw Mosasaur	Fresno County	California	United States
<a href="#">137250</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V90061	Dosados Canyon North fork	Fresno County	California	United States
<a href="#">137251</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V91170	Right Angle Canyon 9	Fresno County	California	United States
<a href="#">138211</a>	Vertebrates	Chondrichthyes				Late Cretaceous	Cretaceous	V91111	Tumey Hills 3	Fresno County	California	United States
<a href="#">138212</a>	Vertebrates	Chondrichthyes				Late Cretaceous	Cretaceous	V92071	Silver Creek S Shark	Fresno County	California	United States
<a href="#">138213</a>	Vertebrates	Osteichthyes				Late Cretaceous	Cretaceous	V92070	Silver Creek S fish	Fresno County	California	United States
<a href="#">138214</a>	Vertebrates	Reptilia	Plotosaurus			Late Cretaceous	Cretaceous	V92067	Silver Creek E 1	Fresno County	California	United States
<a href="#">139147</a>	Vertebrates	Osteichthyes	Protosphyrina			Late Cretaceous	Cretaceous	V93069	Tumey Hills Sec. 16 SE	Fresno County	California	United States
<a href="#">139287</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V93022	Chounet Ranch Plesiosaur	Fresno County	California	United States
<a href="#">140276</a>	Vertebrates	Reptilia				Late Cretaceous	Cretaceous	V93138	Big Lizzy	Fresno County	California	United States
<a href="#">152663</a>	Vertebrates		Prognathodon	waiparaensis		Late Cretaceous	Cretaceous	V93188	Moreno Formation General	Fresno County	California	United States

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# **UCMP** UC Museum of Paleontology Localities

Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE formation like "%Hawk Shale%" ORDER BY loc\_prefix,cast  
(loc\_num as unsigned integer),loc\_suffix

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# **UCMP** UC Museum of Paleontology Localities

Number of matches: 0

**Sorry - no matches. Please try again.**

Query: SELECT FROM ucmp2 WHERE state\_prov\_std = "California" and formation like "%Hawk%"  
ORDER BY loc\_prefix,cast(loc\_num as unsigned integer),loc\_suffix

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## **Anna Buising**

---

**From:** Bromm, George E [gbromm@sierracollege.edu]  
**Sent:** Tuesday, April 10, 2012 12:25 PM  
**To:** Anna Buising  
**Subject:** RE: Requesting a search of your fossil holdings...  
**Attachments:** SCFOSSIL Buising Search April 2012.xls

Hi Anna,

I ran searches on all the units you sent with hits only on the Moreno and Riverbank Formations (see attached Excel file).

You are correct, there's no charge, but if you would like to make a donation to the Sierra College Natural History Museum it will be greatly appreciated. Make the check payable to the SIERRA COLLEGE FOUNDATION and you can send it to:

George Bromm  
Sierra College  
5000 Rocklin Road  
Rocklin, CA 95677

I will make sure that your donation makes it into our Museum's Foundation account.

Thank you  
George

---

**From:** Anna Buising [<mailto:abuising@iecorporation.com>]  
**Sent:** Tuesday, April 10, 2012 9:40 AM  
**To:** Bromm, George E  
**Subject:** Requesting a search of your fossil holdings...

Hi,

I'd like to request a search of your collections for materials from the following units:

- Unnamed Holocene and Pleistocene units of the Santa Clara Valley, Pacheco Pass area, and western San Joaquin Valley
- Alluvium of San Luis Ranch/San Luis Ranch alluvium
- Dos Palos alluvium
- Modesto Formation
- Riverbank Formation
- Santa Clara Formation, Packwood Gravels, Silver Creek Gravels
- Franciscan complex
- Moreno Formation
- Panoche Formation
- Hawk Shale

I understand there's no charge, but can you please let me how the Museum likes to handle donations?

Thanks so much, and please don't hesitate to call or e-mail if you need anything else from us.

AB

***Anna Buising, Ph.D., P.G.***  
***Principal - Environmental Services***



***Infrastructure Engineering Corporation***

1370 Willow Road, 2nd Floor

Menlo Park, CA 94025

Phone 650.324.1665

Fax 650.276.1286

Cell 650.815.6483

[www.iecorporation.com](http://www.iecorporation.com)

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Specimen ID	ID Postfix	Phylum	Class	Order	Family	Genus/Species	Identified By	Common Name	Description	Age	Formation	Collector/Source	Date Collected	Locality	County	Notes
VC 86		Chordata	Chondrichthyes					Shark	Multiple teeth	Cretaceous	Moreno	Pat Antuzzi	10/30/2004	Laguna Seca Creek	Merced	In situ specimens. Turbidite.
VR 55		Chordata	Reptilia					Marine Reptile	Vertebra (weathered)	Cretaceous	Moreno	Sue Ayers	10/30/2004	Laguna Seca Creek	Merced	Float specimen.
VR 94		Chordata	Reptilia					Marine Reptile	Bone fragment (curved)	Cretaceous	Moreno	Richard Hilton	10/30/2004	Laguna Seca Creek	Merced	In situ specimens. Turbidite.
VRT 72		Chordata	Reptilia			Basilemys?	R. Hilton	Turtle	Pitted shell fragment.	Cretaceous	Moreno	Richard Hilton	10/30/2004	Laguna Seca Creek	Merced	In situ specimens. Turbidite.
MB 121	a,b,&c	Mollusca	Bivalvia				R. Hilton	Clams	Clams	Pleistocene	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
T 4								Seed		Pleistocene	Riverbank	Richard Hilton	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, between NE & NE2 on bottom of lower floor about 20.E & 4, deeper than
TAD 147	a&b							Plant	Leaves	Pleistocene	Riverbank	A. Schwartz	10/31/1990	Arco Arena Area	Sacramento	Arco Arena, fluvial plain
TAD 157	a&b							Unidentified	Limb casts.	Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	Arco Arena, fluvial plain about float
VB 19		Chordata	Aves				R. Hilton	Bird	Bone fragment.	Pleistocene	Riverbank		4/1/1989	Arco Arena Area	Sacramento	Arco Arena, on corner, N.E. side of bison
VM 111	a,b,&c	Chordata	Mammalia				R. Hilton		Ribs? fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, in float
VM 27		Chordata	Mammalia				R. Hilton		Bone fragment.	Pleistocene	Riverbank	C. Unruh	8/31/1990	Arco Arena Area	Sacramento	Arco, 17 line, A prime 10.5' S. 5' down
VM 28		Chordata	Mammalia				R. Hilton		Scapula fragment.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VM 30		Chordata	Mammalia				R. Hilton		Bone fragment.	Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	
VM 31		Chordata	Mammalia				R. Hilton		Bone fragment.	Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	
VM 32		Chordata	Mammalia				R. Hilton		Bone fragment.	Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	
VM 34	Check	Chordata	Mammalia				R. Hilton		Bone fragment with bite on end.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	S.E. corner of ball field pit in float.
VM 35		Chordata	Mammalia				R. Hilton			Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	
VM 37	Check	Chordata	Mammalia						Bone fragment.	Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	
VM 38	Check	Chordata	Mammalia				R. Hilton	Mammoth	Neural arch & spine protion of vertebrae.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VM 39	a,b,c,&d	Chordata	Mammalia				R. Hilton		Bone fragments/ribs?	Pleistocene	Riverbank	C. Unruh	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, in float
VM 40	Check	Chordata	Mammalia				R. Hilton		Bone fragment.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, in float
VM 41		Chordata	Mammalia				R. Hilton		Rib fragment (small).	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, 26, due W. of original S.W. corner stake
VM 42		Chordata	Mammalia						Bone fragment.	Pleistocene	Riverbank	Jennifer Fitzgerald	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, 26, N. of N.W. #2 stake, 7, above floor
VM 43		Chordata	Mammalia						Metapodial "knuckle" fragment.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VM 44		Chordata	Mammalia				R. Hilton			Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, 15, E. of center E stake, 5, S., 6, up
VM 45		Chordata	Mammalia						Rib fragment?	Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	Arco Arena, gully #1 in sieve
VM 48		Chordata	Mammalia						Rib? fragments.	Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	
VM 49	a&b	Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		3/14/1989	Arco Arena Area	Sacramento	Arco Arena, by central jaw
VM 50	a&b	Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank	Bill Woods	4/26/1989	Arco Arena Area	Sacramento	Arco Arena, S.E. forner 11, S. of S.E. stake, 7, E. of S.E. stake
VM 51	a&b	Chordata	Mammalia						Bone fragments (+tiny frags.).	Pleistocene	Riverbank		3/15/1989	Arco Arena Area	Sacramento	Arco Arena, gully 2
VM 52		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank	Tae Towers	4/26/1989	Arco Arena Area	Sacramento	Arco Arena, 8, N. of S.E. corner, 12, E. 5, up
VM 53	a&b	Chordata	Mammalia						Small bone fragments.	Pleistocene	Riverbank	Tae Towers	4/1/1989	Arco Arena Area	Sacramento	Arco Arena, 12, E. of calcaneum by large horn
VM 54		Chordata	Mammalia						Small bone fragments.	Pleistocene	Riverbank	John Keeler	5/9/1989	Arco Arena Area	Sacramento	Arco Arena, 22, N. of SE 2 & 22, E.
VM 55	a&b	Chordata	Mammalia						Small bone fragments.	Pleistocene	Riverbank	Tae Towers	5/3/1989	Arco Arena Area	Sacramento	Arco Arena, 23, S. of E. center stake 1, 18, E. 12, up
VM 56	a&b	Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, by distal jaw
VM 57		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank	C. Unruh	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VM 58		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		4/1/1989	Arco Arena Area	Sacramento	Arco Arena, 2' E. of Big Horn, large end
VM 59	a&b	Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		3/16/1989	Arco Arena Area	Sacramento	Arco Arena, ditch back of 1st lump. Central back of lump
VM 60		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		3/14/1989	Arco Arena Area	Sacramento	Arco Arena, gully, 3, S. of jaw
VM 61		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VM 62		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, top of 1st lump near A-1, back of lump 1
VM 63		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VM 64		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, top of 1st lump near A-1, back of lump 1
VM 65		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, top of 1st lump near A-1, back of lump 1
VM 66		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank	Richard Hilton	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, 24, in from E. wall on lower floor
VM 67		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank	Richard Hilton	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VM 68		Chordata	Mammalia				R. Hilton	Antelope/Deer?	Scapula fragment?	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VM 69		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VM 70		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VM 71		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VM 72		Chordata	Mammalia						Vertebrae piece?	Pleistocene	Riverbank	Richard Hilton	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, center of pit
VM 73		Chordata	Mammalia						Bone fragments.	Pleistocene	Riverbank		8/31/1990	Arco Arena Area	Sacramento	Arco Arena, N.E. of Carrie's jaw fragment

VMA 1		Chordata	Mammalia			R. Hilton	Ground Sloth	Tooth root.	Pleistocene	Riverbank	Richard Hilton	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, 70cmN of NW corner & 40cm 3,up
VMA 2		Chordata	Mammalia			R. Hilton	Ground Sloth	Vertebra fragment.	Pleistocene	Riverbank	Tina Campbell (Jeffers)	4/26/1989	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VMA 3		Chordata	Mammalia			R. Hilton	Ground Sloth	Tibia	Pleistocene	Riverbank	Brian Fornoff	2/28/1989	Arco Arena Area	Sacramento	Arco Arena in planter area.
VMA 4		Chordata	Mammalia				Ground Sloth	Scapula.	Pleistocene	Riverbank	Richard Hilton	3/31/1990	Arco Arena Area	Sacramento	In pit, 17 line A prime, 5' to 6' down.
VMA 9		Chordata	Mammalia		Megalonyx	G. McDonald	Ground Sloth	Mandible fragment and three teeth.	Pleistocene	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	Junction of Sacramento and American Rivers. Return from G. McDonald 6/2009.
VMC 10		Chordata	Mammalia				Dog (Coyote)	Humerus	Pleistocene	Riverbank		4/23/2001	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VME 289		Chordata	Mammalia				Camel? Bison?	Tarsal	Pleistocene	Riverbank	Josh Bonde	3/5/2004	Arco Arena Area	Sacramento	Float at fill site.
VME 290	Skeleton	Chordata	Mammalia				Bison	Misc. skeleton parts.	Pleistocene	Riverbank	Rainey O'Rourke	5/3/1989	Arco Arena Area	Sacramento	18,S of NE #2, 10,E, 8, up
VME 291		Chordata	Mammalia		Camelidae	R. Hilton	Camel	Calcaneum	Pleistocene	Riverbank	Brian Fornoff	2/28/1989	Arco Arena Area	Sacramento	Arco Arena, found as float ~50 meters S of Bison pit.
VME 295		Chordata	Mammalia				Bison?	Vertebrae	Pleistocene	Riverbank	Richard Hilton	4/30/1990	Arco Arena Area	Sacramento	Arco A-13 in pit
VME 296	a	Chordata	Mammalia				Bison?	Horn	Pleistocene	Riverbank	Richard Hilton	3/31/1990	Arco Arena Area	Sacramento	Arco A-13 in pit. On loan to the Rocklin Museum.
VME 308		Chordata	Mammalia			R. Hilton	Bison?		Pleistocene	Riverbank	C. Unruh	7/5/1990	Arco Arena Area	Sacramento	Arco Arena, in float
VME 616		Chordata	Mammalia		Camelidae	R. Hilton	Camel	Calcaneum (right).	Pleistocene	Riverbank	Charles Dailey	4/23/2001	Arco Arena Area	Sacramento	
VME 617		Chordata	Mammalia		Camelidae	G. Bromm	Camel	Left metatarsal.	Pleistocene	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	
VME 692		Chordata	Mammalia		Camelidae	R. Hilton	Camel	Proximal end femur (ball).	Pleistocene	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	
VME 693		Chordata	Mammalia			R. Hilton	Bison	Thoracic vertebra.	Pleistocene	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	
VME 694		Chordata	Mammalia		Camelidae	R. Hilton	Camel	Distal end ulna	Pleistocene	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	
VMEL 14		Chordata	Mammalia			R. Hilton	Mammoth	Tusk fragments.	Pleistocene	Riverbank	Richard Hilton	3/31/1990	Arco Arena Area	Sacramento	
VMEL 15	a&b	Chordata	Mammalia				Mammoth	Tooth fragments.	Pleistocene	Riverbank	Richard Hilton	3/31/1990	Arco Arena Area	Sacramento	
VMEL 28		Chordata	Mammalia				Mammoth	Thoracic vertebra	Pleistocene	Riverbank	Arturo Gutierrez	4/23/2001	Arco Arena Area	Sacramento	
VMEL 40		Chordata	Mammalia		Proboscidean?	R. Hilton	Elephant		Pleistocene	Riverbank	Richard Hilton	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. float
VMEL 41		Chordata	Mammalia		Mammoth?	R. Hilton	Mammoth	Vertebrae fragment.	Pleistocene	Riverbank	Richard Hilton	3/31/1991	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VMEL 42		Chordata	Mammalia		Mammoth?	R. Hilton	Mammoth	Small fragment of skull.	Pleistocene	Riverbank	C. Unruh	3/31/1991	Arco Arena Area	Sacramento	Arco Arena, app. float
VMEL 43		Chordata	Mammalia		Mammoth?	R. Hilton	Mammoth	Vertebrae fragment.	Pleistocene	Riverbank	C. Unruh	8/31/1990	Arco Arena Area	Sacramento	Arco Arena, app. in float
VMEL 72		Chordata	Mammalia			R. Hilton	Mammoth	Right tibia.	Pleistocene	Riverbank	Mike Boswell & Reginald Mickel	4/23/2001	Arco Arena Area	Sacramento	Uncovered and damaged by construction equipment.
VMEL 73		Chordata	Mammalia			C. Dailey	Mammoth	Scapula	Pleistocene	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	
VMEL 82	r 1-6, cr, c	Chordata	Mammalia		Mammuthus columbi		Mammoth	Maxilla of skull w/ occipital condyles, 5 ribs, 1 ankle/wrist bone, and frags.	Pleistocene (.13-.45 mya)	Riverbank	Edwin Bragado/Reynen-Bardis Donation	7/2/2004	South of Bilby Rd., Elk Grove	Sacramento	During shipping: skull broke in half and small process broke. Parts not glued. Parts not display are in Prep. Lab. SMUD financed excavation. Sandy lens in tan clay. Prepared by Dave Maloney
VMO 140		Chordata	Mammalia			R. Hilton	Horse	Proximal end jaw.	Pleistocene	Riverbank	Richard Hilton	4/13/1982	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VMO 247		Chordata	Mammalia			C. Dailey	Horse	Pelvis bones.	Pleistocene	Riverbank	Jan Richard Rutenbergs	10/6/1995	Sacramento Regional Wastewater	Sacramento	Found 30' below ground surface in blue-green clayey silt.
VMR 13		Chordata	Mammalia			R. Hilton	Rodent?	Teeth/fragment of mandible.	Pleistocene?	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VMR 14		Chordata	Mammalia			R. Hilton	Rodent?	Tooth fragment.	Pleistocene?	Riverbank	Richard Hilton	4/23/2001	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
VMR 9		Chordata	Mammalia			R. Hilton	Squirrel	Distal end humerus.	Pleistocene	Riverbank	Joe Smith	4/23/2001	Arco Arena Area	Sacramento	SENT TO HEGERMAN 2/22/96
X 1			Mammalia				Unidentified	Bone fragment.	Pleistocene	Riverbank	Brain Fornoff	3/13/1987	Arco Arena Area	Sacramento	Arco Arena, N. Natomas site in float

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23 August 2012

Infrastructure Engineering Corporation  
1370 Willow Road, 2nd Floor  
Menlo Park, CA 94025

Attn: Dr. Anna Buising, Principal - Environmental Services

re: Vertebrate Paleontology Records Search for paleontological resources for the proposed Coast Range to San Joaquin Valley Project, from near San Jose to near Gilroy then to near Fairmead and to near Merced, in Santa Clara, San Benito, Merced and Madera Counties, project area

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Dear Dr. Buising:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for the proposed Coast Range to San Joaquin Valley Project, from near San Jose to near Gilroy then to near Fairmead and to near Merced, in Santa Clara, San Benito, Merced and Madera Counties, project area as covered by portions of the San Jose West, San Jose East, Santa Teresa Hills, Morgan Hill, Mt. Madonna, Gilroy, Chittenden, San Felipe, Three Sisters, Pacheco Peak, Pacheco Pass, San Luis Dam, Volta, Los Banos, Delta Ranch, Santa Rita Bridge, Bliss Ranch, Chowchilla, Berenda, Le Grand, Plainsburg, El Nido, Merced, and Planada USGS topographic quadrangle maps as indicated in the e-mail that you sent to me on 18 June 2012. We may have one vertebrate fossil locality that lies directly within the proposed project boundaries, and we have other localities somewhat nearby in the same or similar sedimentary deposits as occur in the proposed project area, either as surficial exposures or as subsurface deposits.

The proposed project area in the Santa Clara Valley, Coyote Valley, Pacheco Pass area, San Luis Dam area, San Joaquin Valley floor, and San Luis Ranch vicinity contain surficial exposures of younger and older Quaternary alluvium in the lower lying drainages and basins derived as fan and fluvial deposits from the nearby mountains. We do not have any vertebrate fossil localities from these unnamed fan, fluvial, and floodbasin units or from the Dos Palos alluvium in the proposed

project area. We do, however, have vertebrate fossil localities at some distance from the proposed project area. Our closest vertebrate fossil locality from Quaternary Alluvium is LACM 7254, located in or near the eastern end of the proposed project area in Chowchilla near Ash Slough where a specimen of fossil elephant, Proboscidea was found. Our next closest vertebrate fossil locality is LACM 3513, located further north near Oakdale, where a fossil mammoth, *Mammuthus columbi*, horse, *Equus*, and camel, *Camelops* were found. We also have the vertebrate fossil locality LACM 4069 located to the south in San Benito County that produced specimens of fossil horse, *Equus*, deer, Cervidae, and pronghorn antelope, Antilocapridae.

The proposed project area also traverses the late Pleistocene Modesto Formation and the Pleistocene to late Pliocene Santa Clara Formation. The lithology of the Modesto Formation consists of tan-gray, silty sand lenticular beds that are commonly crossbedded as a result of coalescing alluvial fan deposits. The Modesto Formation is known to be fossiliferous and produces a typical late Pleistocene fauna of bison, horse, mammoth, mastodon, elephant, camel, antelope, coyote, reptile, and ground sloth. The lithology of the Santa Clara Formation [locally called Packwood Gravels of Pleistocene age and Silver Creek Gravel of Pliocene age with no difference in lithology] is a coarse gravel sand, and sandy clay, locally lignitic, known to contain fossil fresh water shells. The Santa Clara Formation can be severely disturbed in places and is not always fossiliferous where mountains have elevated since its deposit. The gravel conglomerate detritus is composed of Franciscan rocks and other volcanic rocks that are well bedded with gray, green to red sandstone and claystone. We do not have any vertebrate fossil localities from either the Modesto Formation or the Santa Clara Formation within the proposed project area. While the Modesto Formation may have the potential to produce significant vertebrate fossil remains, it is unlikely that the Santa Clara Formation will produce significant vertebrate fossil remains in weakly indurated sediments.

The proposed project area traverses the marine late Jurassic and early Cretaceous Franciscan assemblage. These greenstone and chert facies igneous rocks will of course be devoid of any recognizable vertebrate fossils. It is unlikely that the graywacke sandstone or limestone from the Franciscan assemblage will produce significant vertebrate fossils. We do not have any vertebrate fossil localities from the Franciscan assemblage.

The proposed project area traverses an unnamed marine shale of probable Paleocene-Eocene age in the western Diablo Range at the approach to Pacheco Pass. The lithology of these unnamed rocks consists of light gray to tan, fine medium grained, thick bedded, and arkosic sandstone, dark gray clay shale, and white limestone. We do not have any vertebrate fossil localities from the marine early Eocene to Paleocene unnamed shale and it is unlikely that significant vertebrate fossils would be encountered.

The proposed project area traverses the marine Late Cretaceous Panoche Formation. The lithology consists of dark gray clay shale or mudstone, light gray to light brown sandstone, and gray to brown conglomerate. The Panoche Formation is known to contain vertebrate fossils and we have two main clusters of vertebrate fossil localities outside of the proposed project area in Madera and Fresno counties. The vertebrate fossils collected from these localities are described in L.R. David's



1946 work, "Upper Cretaceous Fish Remains from the Western Border of the San Joaquin Valley, California." Carnegie Institution of Washington Publication 551(5): 81-112.

Our closest vertebrate fossil localities from the Panoche Formation are LACM 4413-4415, located west of Chowchilla within the Bliss Ranch project area quadrangle in Madera County. These localities produced several holotype specimens (the name bearing specimen for species new to science) of fossil fish *Rothwellia trachichthyiformes* and *Rankinia macrouriformis* in addition to a figured specimen of *Bramlettia chicoensis*. These specimens were collected from well cores at depths of 4414-5048 feet below the surface. Our next closest vertebrate fossil localities from the Panoche Formation are LACM 4400-4405, located some distance to the south of the proposed project area, about 3 miles south of Silver Creek within the Chaney Ranch quadrangle in Fresno County. These localities produced several holotype specimens of fossil fish *Driverius cretaceus*, *Goualkoffia delicata*, and *Paraberyx californica* from well cores at depths of 7077-7144 feet below the surface.

The proposed project area traverses the marine Late Cretaceous Moreno Shale. The lithology of the Moreno Shale is gray, clay shale and light brown, fine grained sandstone which is well known for producing significant vertebrate fossils that are often new to science. Specimens of large reptiles, fish, dinosaurs and even occasional terrestrial fossils have been discovered. Fossilized plant materials are known to also be well preserved in the Moreno Shale and offer important paleoenvironmental information concerning the late Cretaceous. The Moreno Shale consists of four distinct members: Dosados, Tierra Loma, Marca, and Dos Palos. We have several vertebrate fossil localities from the Moreno Shale. While none of our localities occur within the proposed project area quadrangles, similar vertebrate fossils may be encountered in the exposures of Moreno Shale in the proposed project area.

All of our vertebrate fossil localities from the Moreno Shale occur to the south of the proposed project area in the Chaney Ranch, Chounet Ranch, Panoche, and Tumey Hills quadrangles of Fresno and San Benito counties. Our closest cluster of localities are CIT 328, 331, 336, 339, 340, and 354, located near Moreno Gulch and LACM 4392-4399 located south of Silver Creek. These localities produced fossil specimens of bony fish, *Kleinpellia morenoensis*, *Natlandia ornata*, *Smseroides angulatus*, *Sardinoides californicus*, *Elasmosauridae*, *Enchodus petrosus*, plesiosaur, *Morenosaurus stocki*, mosasaurs, *Plesiotylosaurus crassidens*, *Plotosaurus bennisoni*, *Plotosaurus*, turtle, *Protostega*, and a hadrosaurian dinosaur, *Saurolophus*, the only nearly complete dinosaur skeleton known from California. Our next closest cluster of vertebrate fossil localities are CIT 316, 337-338, 343-347, 355-362, 397 and LACM 4621-4624, 4387-4388. These localities produced fossil specimens of bony fish, *Pachyrhizodus*, *Protosphyraena*, *Laimingia plicata*, and *Smseroides nodulatus*, plesiosaurs, *Aphrosaurus furlongi*, *Fresnosaurus drescheri*, *Morenosaurus stocki*, mosasaurs, *Plesiotylosaurus crassidens*, *Plotosaurus bennisoni*, turtles, *Protostega*, Testudinata, Reptilia, and a hadrosaur dinosaur, *Saurolophus*, the only nearly complete dinosaur skeleton from California.

The proposed project area traverses the Jurassic- Cretaceous Hawk Shale. The Hawk Shale underlies the Panoche Group and is in fault contact with the Franciscan assemblage. We do not have any vertebrate fossil localities from the Hawk Shale and it seems unlikely that this rock unit would produce significant vertebrate fossils.

Excavations in the igneous rocks of the Franciscan assemblage in proposed project area will not uncover recognizable fossils. It is also unlikely that the unnamed Paleocene-Eocene Shale and the Hawk Shale would produce significant vertebrate fossils. Shallow excavations in the Quaternary fan deposits or the younger Quaternary fluvial deposits exposed in the lower lying portions of the proposed project area probably will not encounter significant fossil vertebrate remains. Deeper excavations in the fluvial areas that extend into underlying older Quaternary deposits, or any excavations in the Dos Palos alluvium, Modesto Formation, Santa Clara Formation, Panoche Formation, or Moreno Shale may well encounter significant vertebrate fossils. Any substantial excavations in the sedimentary deposits in the proposed project area, therefore, should be monitored closely to quickly and professionally collect any fossils discovered without impeding development. Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey. It is advisable that further information concerning these rock units and their paleontological sensitivity respective to your particular proposed project areas may be obtained from the University of California Museum of Paleontology at Berkeley.

Sincerely,

A handwritten signature in cursive script that reads "Samuel A. McLeod".

Samuel A. McLeod, Ph.D. & Vanessa R. Rhue  
Vertebrate Paleontology

enclosure: invoice