

Vagnari 2 Exposure

This exposure reveals >8,500 years of alluvium. Depositional units are evident as well as occasional weathering profiles related to soil formation. The shovel highlights a 2,100 cal. B.P. soil that can be traced regionally in all stream banks and archaeological sites in the area. At the base of the exposure is a gleyed unit containing snail shells indicating ponding in this stream more than 8,500 years ago.





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A LAND AND A LAND A	Peds		6-1 cm	50%		
A CARLES AND A CARDINE CONTRACTOR	Fine Seds ?	eds, sand rich	3-1 cm	5%		th
	Peds		4-1 cm	50%		
ALL REAL PROPERTY AND ALL REAL	Peds		9-1 cm	80%	UPPERMOST	We
STANSS STORESS /1	Peds		2-1 cm	80%	SOIL	
Contract Providence of the	Peds		3-1 cm	60%		
	Peds		4-1 cm	70%		
A STATISTICS	Peds		3-1 cm	60%		Tł
and the second second second	Peds		2-1 cm	40%		
Revent and a second and	Peds		4-1 cm	60% 10%	_	m
	Gravel Gravel		3-1 cm 5-1 cm	10%	GRAVELS	111
State of the second second	Gravel		4-1 cm	50%	GRAVELS	dι
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ALL PREMARK THE PARTY OF THE PARTY	Paleosol	Some Peds	2-1 cm	60%	DEVOLOPED	ye
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· 注意了。 (4) · · · · · · · · · · · · · · · · · · ·	Paleosol	Some Peds	3-1 cm	50%	INCLEOSOL	th
A PARTY AND A PARTY	Paleosol	Some Peds	6-1 cm	80%		_
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	Peds		3-1 cm	60%		ev
	Peds		5-1 cm	50%		
「ないない」 シスカイ インティング	Gravel		3-2 cm	40%20b		ev
Charles 11 / 19 - 2 Parts	Gravel		6-1 cm	80%20a		
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	Gravel		3-4 cm	30%19a		
ST. CARLANS	Gravel		8-4 cm	30%		ev
A REAL FOR AND PROFESSION	Peds		4-1 cm	30%		
	Peds	Some Peds	3-1 cm	15%	WEAK SOIL	
Cal BP 8,375	Fine Seds Peds	Some Peus	3-1 cm 2-1 cm	35%	SUIL	
	Gravel		5-3 cm	50%		Ea
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	Fine Seds					bo
	Peds		3-1 cm	95%		рс
SIL Star Star	Fine Seds					
the state of the s	Peds		1-0 cm	90%	LOWEST SOIL	th
	Gravel		12-5 cm	80%		~
and the city of the	Gravel		8-5 cm	80%	GRAVELS	SE
	Fine Seds	clay rich		606715		

Stratigraphic description is aligned with the profile, AMS dates are placed in the profile where they were collected.

This exposure reveals four major flooding events during the last 8,400 years, much fewer than the number of flood units exposed upstream. Here evidence of previous flood events have been destroyed by larger flood events.

Each cycle was initiated by an erosional event followed by deposition of poorly sorted gravels and then by finer and finer sediments.

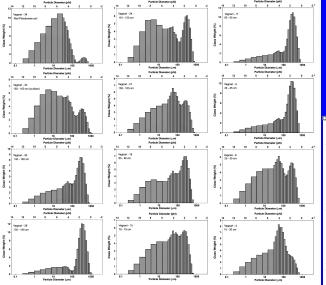
Cleaning & Sampling the Exposures



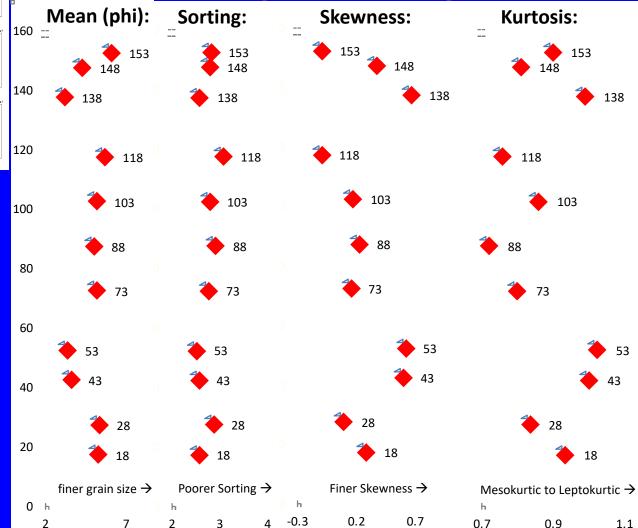
The cleaned exposure at Arroyo Italiano 1 reveals the two major Holocene soils. The upper at the top 1/3 of the meter stick is 2,100 cal yr B.P. and the lower soil (the dark unit in the lower 1/3 of the meter stick) is 8,400 cal yr B.P.

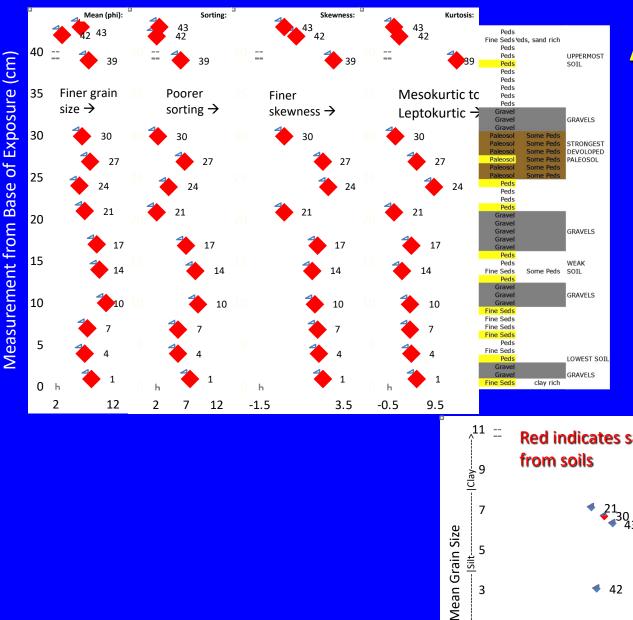
We have collected over 400 sediment samples to be used for grain size and other analysis. We are also interested in lead content of the sediment as an indicator of when people in this region began to fabricate lead artifacts.

Vagnari 1: Initial Sediment Analyses

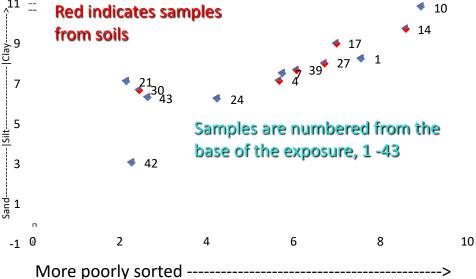


Mastersizer grain size analyses of Vagnari alluvial exposure. The upper left sample is from underlying channel fill that dates to the last interglacial (~150,000) and has been rubified. Sample 34 is near top of Holocene alluvial section, and sample 4 is near the base.





Arroyo Italiano 1: Grain Size Parameters



Arroyo Italiano 1: Mean vs. Sorting