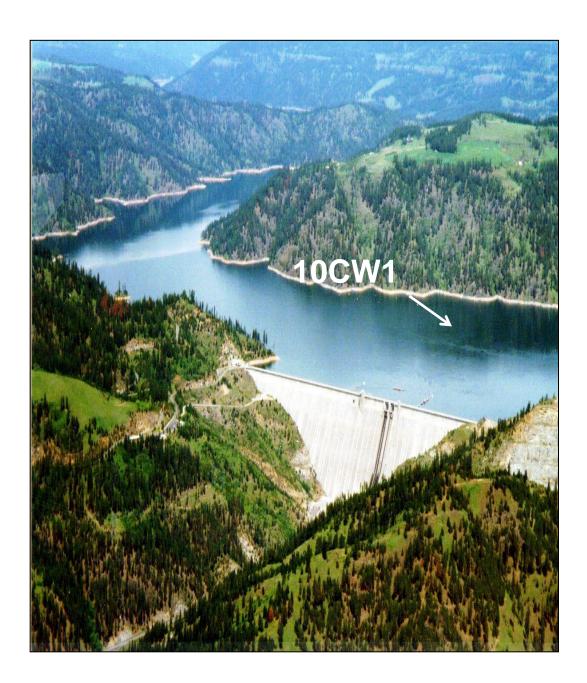
Introduction

In the early 1960s, Idaho State University excavated the Bruce's Eddy site (10CW1) along the North Fork of the Clearwater River in Clearwater County, Idaho. This work was conducted prior to construction of the Dworshak Dam, which inundated the site. The excavations produced a large, rich assemblage, but reporting was limited to two journal articles (Lynch et al. 1965; Osmundson and Hulse 1962). A comprehensive analysis and reporting of the work was incomplete for more than five decades.



In 2014, WillametteCRA was contracted by the USACE to complete the analysis.



Goals

The principal task was to analyze excavated materials and discuss site occupations in local and regional land-use frameworks. Inherent in this task was to piece together the actual location of excavation areas at the site, and provide chronological control. This work involved an examination of various field notes and other excavation records.

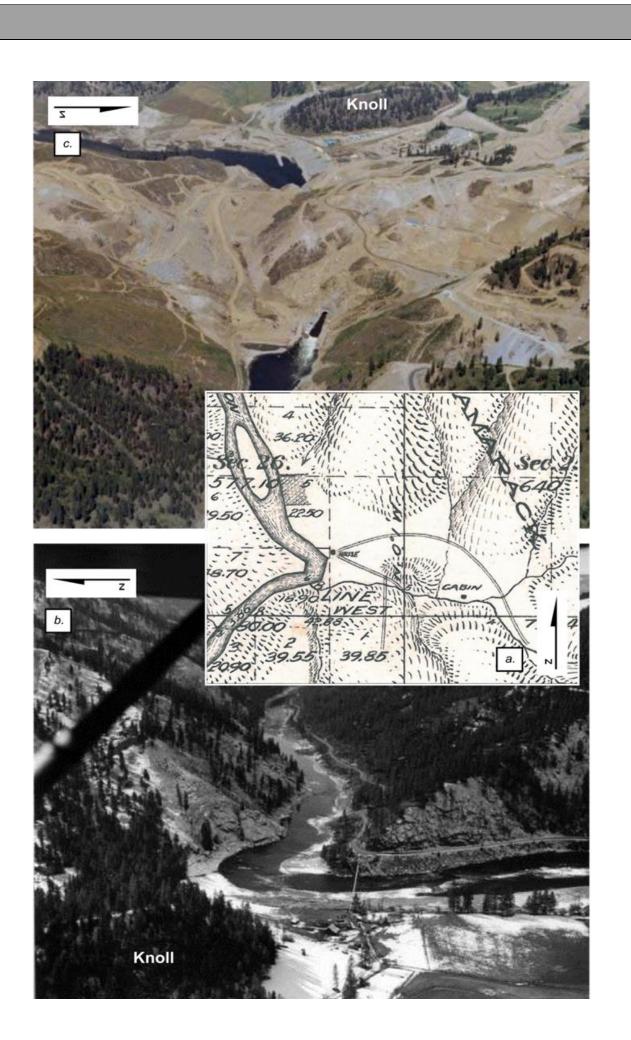
Issues

- Information pertaining to excavation locations was principally found in field notes, which were incomplete and sometimes contradictory.
- 2. Much of the artifact provenience data was missing. Importantly, all provenience data for projectile points had been lost.

Physical Reconstruction of Site Vicinity

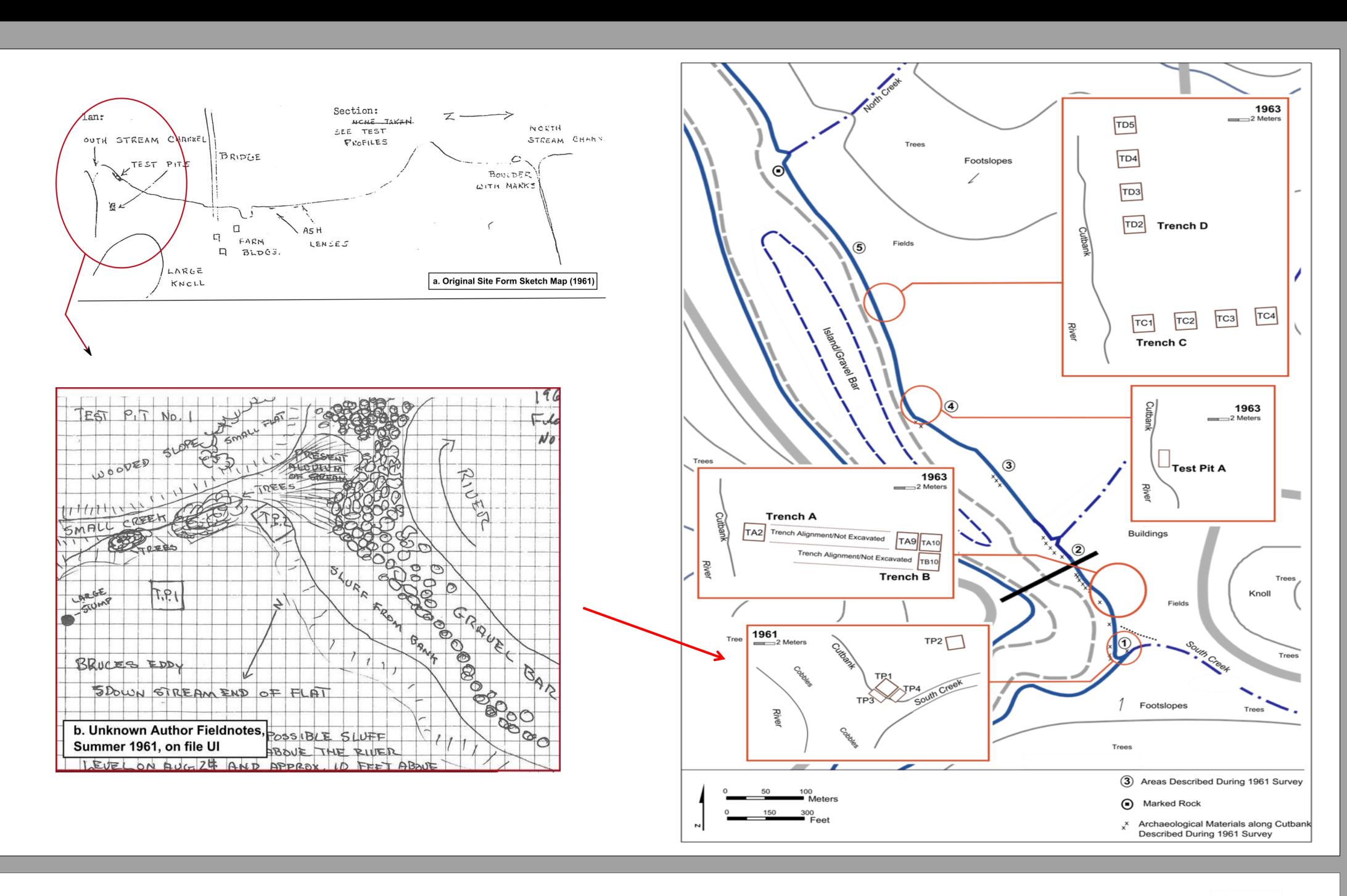
The site lacked a comprehensive, high quality and detailed map depicting the configuration of the various landscape elements and where excavations had occurred.

- WillametteCRA staff compiled data from original field notes and schematics, 1950s and 1960s aerial photography, and GLOs and other historic–period maps.
- A composite map of Bruce's Eddy depicting landforms and manmade features prior to inundation was created.
- Locations of archaeological excavations were overlain onto the composite map, providing details of the excavation vicinity that were not previously known.



Interpreting Data at the Bruce's Eddy Site (10CW1) Solving the Problems of Missing Data from a Decades Old Excavation

Matt Goodwin, Breanne Taylor and Paul Solimano Willamette Cultural Resources Associates, Ltd



Site Age and Occupations

Projectile point provenience information was missing. The points couldn't be linked to depth below surface to date occupation and use. A journal article (Lynch et al. 1965) provided point counts by level, but the point styles were idiosyncratic and not easily linked to contemporary styles. Lynch et al.'s point styles were illustrated, however.

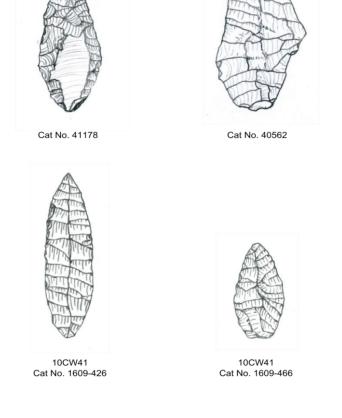
•We identified 25 of Lynch et al.'s 31 illustrated points in the collection, and typed the points using contemporary typologies (i.e., Lohse 1985; Lohse and Schou 2008; Pettigrew et al. 1995). The result was a correlation table matching Lynch et al.'s styles with contemporary types.

•This allowed us to graph the frequency of points by depth below surface.

Correlation between Lynch et al. Types, Contemporary Types, and Excavation Depth.

Points from Lynch et al. 1965, Chart 1								All points in the Collection									
	Mean Neck Width	Туре			Excavation Level (cmbs)								that could be Typed				
Type (Lynch et al. 1965, Chart 1)		Lohse Type	Lohse and Schou Series	Years BP	0-20	20-40	40-60	60-80	80- 100	100- 120	120- 140	140- 160	Total Count	Total Percent	Count	Percent	
Convex Base Triangular	na	GWL	Lan	0500 to		4	4	1	1				10				
Plateau Pentagonal	na	Cas	Lan	8500 to 4000			2	2				ľ	2	13	7	5	
Cascade	na	Cas	Lan					1					1				
Straight Stem, Barbed Shoulder	13.59	QBCN	CNT			1				1			2				
Expanding Stem Straight Shoulder	13.26	QBCN	CNT	5000 to	1	2	1	1	2				7				
Side Indented	12.62	QBCN	CNT	IT	2000					1	1		1	3	17	22	17
Expanding Stem, Barbed Shoulder	11.65	QBCN	CNT	2000	1			1	1				3				
Straight Stem, Straight Shoulder	9.7	CCN	CNT		1	1			1				3				
Mid Columbia Bas Notch (Hermit Variety)	5.99	CS	BNT		1	1	3	5		1	1		12				
Middle Columbia Basal Notched	5.02	CS	BNT	2500 to	4	2	5	8	2	1		1	23	55	68	60	
Wallula Rect Stemmed (NF Variety)	4.95	CS	BNT	1500	1	2		3					6	33	00	00	
Wallula Rectangular Stemmed	2	CS	BNT			5	5	5	1				16				
Dessert Side-Notched, General Subtype	6.49	PSN	SNT-L	1500 to		1	3	2					6	15	18	16	
Desert Side Notched, Redding Subtype	6.49	PSN	SNT-L	ca. 0	1	4	1	2	2				10	10	10	10	
				otal Count al Percent	10 10	23 22	24 23	29 28	11 11	4	1	2 2	104 100	100	115	100	

See the next table for Lohse Type and Series definition



0 5

Ages of Projectile Points Recovered from 10-CW-1.

Series		Туре	Max	Min 4,000	Count 2	
Lanceolate	Lan-C	Cascade	8,500			
Shouldered Lanceolate	Lan-W	Windust	Win	12,000	8,500	
	Lan-M	Mahkin Stemmed	Mst	6,000	2,500	
Side-notched Triangular	SNT-E	Cold Springs Side-notched	CSSN	7,600	4,000	5
	SNT-L	Plateau Side-notched	PSN	1,500	200	18
Comer-removed Triangular	CRT	Nespelim Bar	NB	5,000	3,000	
	CRT	Rabbit Island Stemmed A	RIS-A	4,000	2,000	1
	CRT	Rabbit Island Stemmed B	RIS-B	3,000	1,500	
Comer-notched Triangular	CNT-E	Columbia Comer-notched A	CCN-A	5,000	2,500	14
	CNT-L	Columbia Comer-notched B	CCN-B	2,500	200	32
	CNT	Quilomene Bar Coner-notched A	QBCN-A	3,000	2,000	3
	CNT	Quilomene Bar Coner-notched B	QBCN-B	3,000	2,000	
	CNT	Wallula Rectangular Stemmed	WRS	2,000	1,500	4
Basal-notched Triangular	BNT	Quilomene Bar Basal-notched A	QBBN-A	2,000	1,500	5
	BNT	Quilomene Bar Basal-notched B	QBBN-B	2,500	1,500	
	BNT	Columbia Stemmed A	CS-A	2,000	200	31
	BNT	Columbia Stemmed B	CS-B	2000	200	
	BNT	Columbia Stemmed C	CS-C	2000	200	
					Total	115
					Unknown	36
					Grand Total	151

Results and Discussion

features. impacts. deposits.

Prentiss et
lld. Some large village decline
llc. Pops. peak, stabi
llb. Populations incre
lla. Populations increa
I. Classic Collectors
Higher Resident Generalized Diet, Lo and Population A

Discussion

years ago.

Acknowledgement

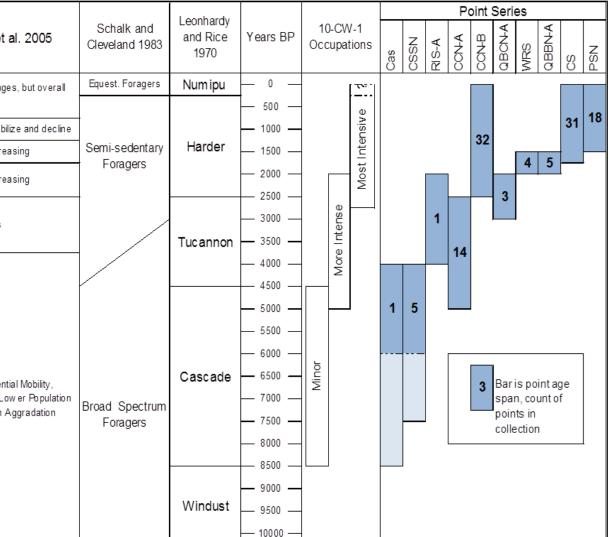
•Cartographic research and review of notes and schema from previous investigations pinpointed the location of 1960s excavation units and linked those units to their position on the landform and their relation to important landscape

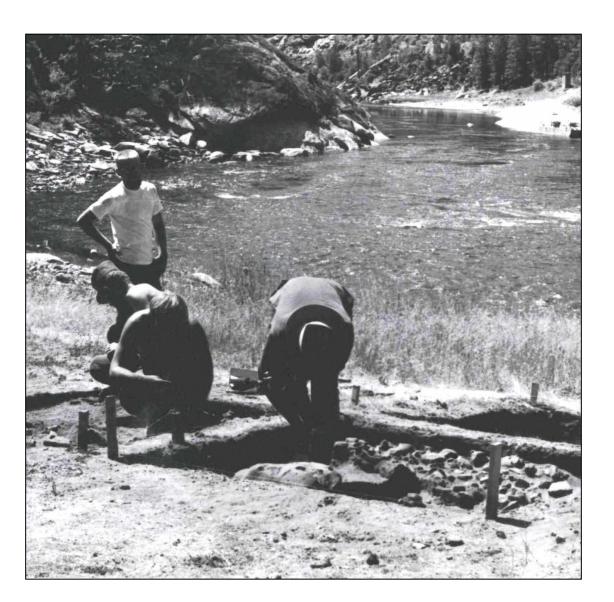
•Researchers were able to correlate temporally diagnostic projectile points with excavation levels, providing specifics on site age, use and post depositional

•Nearly 90 percent of the projectile points seem to postdate ca. 5000 years ago, with over 75 percent postdating 2,500 years ago.

•Based on projectile points, most site occupations probably occur between about 20 and 80 cmbs, with deeper artifacts the result of post-depositional bioturbation. •No robust structures were encountered during excavations. It is unlikely that larger, subsurface structures were present at the site and ephemeral structures such as mat lodges or ramadas, if present, may have been obscured by the mixed

•While no intact cooking or processing features were noted, the field crew did record charcoal lenses and scatters of FCR. Site reoccupation, trampling and mixing may have left such features jumbled, with little recognizable form.





Some general impressions on age and site function at 10CW1 are possible:

•Analysis of projectile points along with other artifact classes suggests very limited use prior to 5,000 years ago, (relatively) moderate use between 5,000 and 2,500 years ago, with (relatively) heavier use after 2,500 BP and probably after 2,000

•The data suggest the most intense use of the site, at least based on the relative amounts of precontact and contact-era materials, probably occurred after 2,000 years ago, but diminished at some point prior to contact.

•Overall, 10CW1 appears to be a field camp associated with a relatively narrow range of resource procurement and processing tasks.

•Based on the site's location and fairly detailed ethnographic descriptions (e.g., Osmundson and Hulse 1961), 10CW1 was likely a fish procurement and processing locale, however, no artifacts clearly related to fishing were found.

David Ellis, Daniel Gilmour, WillametteCRA, Dr. Kenneth Ames, and The USACE Walla Walla Office

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⁹⁶² Preliminary Report on an Archaeological Survey of the Bruce's Eddy Reservoir, North Central Idaho, 1961. Tebiwa 5(1):11-29

Nilliam Hildebrandt and P. Mikkelsen. 1995. Projectile Point Typology. In Archaeological Investigations PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon, and California,

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