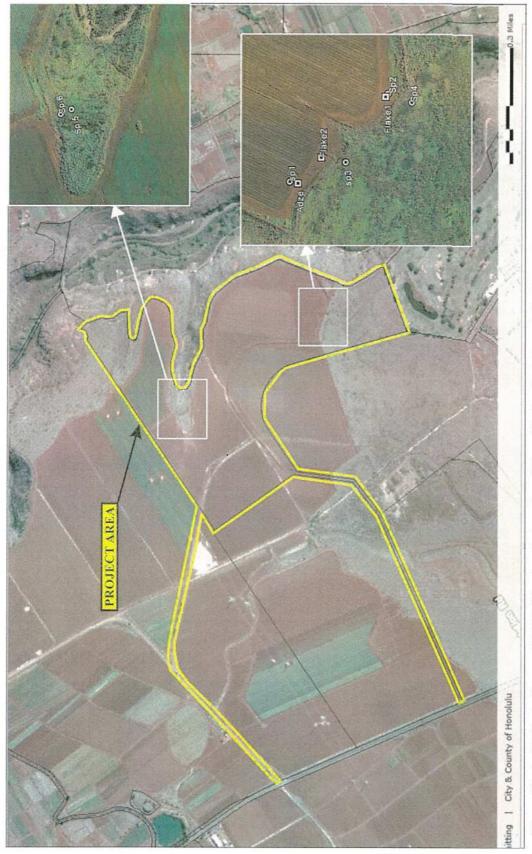
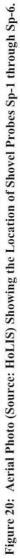


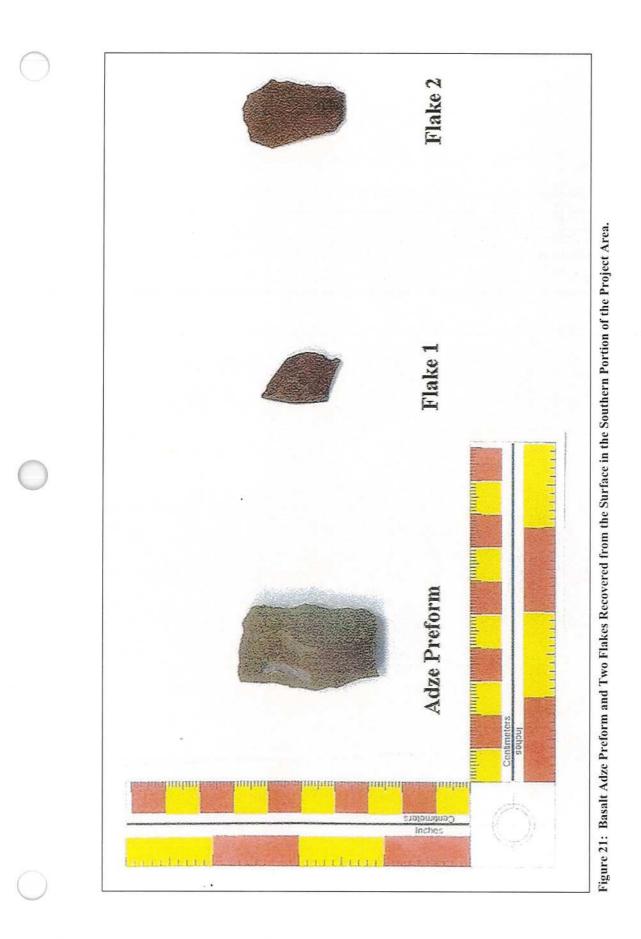




.







SP-5 and SP-6 were placed in a valley on the east side of the project area, located at the end of a dirt road leading from four structures visible on the 1927 USGS Waipahu map (see Figure 4). Based on this map, it was thought this area might have been used as a dump site.

The cultural materials collected from the shovel probes were analyzed at the SCS O'ahu office by Guerin Tome, B.A. The following paragraphs detail the total inventory of sites recorded during the current Archaeological Inventory Survey, the results of the shovel probes, and a summary of the artifact analysis. This includes a map detailing the location of sites identified in the 1986 Riford and Cleghorn survey in relation to the project area, the two newly identified sites TS-1 and TS-2, the six shovel probe locations, and the locations of the three pre-Contact artifacts (Figure 7).

SHOVEL PROBE 1 (E 600633/ N 2368398)

The purpose of Shovel Probe 1 (SP-1) was to investigate for possible subsurface archaeological cultural deposits, features and/or artifacts in the vicinity of the surface finds. Shovel Probe 1 was located next to the location of the adze preform, on the northern shoulder of a dirt road in the southern part of the project area (Figure 20). Measuring approximately 0.3 m long and 0.3 m wide, SP-1 was excavated to a maximum depth of 0.50 m below the soil surface. No archaeological cultural material was found during the excavation of SP-1. The excavation of SP-1 revealed the presence of two soil strata (Figure 22, Figure 23).

- Layer I (0-29/33 cmbs) was a very compact dark red (2.5YR 3/6) clay silt with medium coarse crumb texture (40%). The lower boundary was indistinct and only differed in texture. Thin, black agricultural covering was found. Due to the presence of the modern plastic, LI is interpreted as an agriculturally disturbed natural stratum.
- Layer II (29/33-50 cmbs) was a very compact, dark red (2.5YR 3/2) fine clay. No cultural
 materials were observed

Excavation of Shovel Probe 1 revealed that this portion of the project area has not been strongly impacted by mechanical or human activities below the surface. Although Layer I has been disturbed by agricultural activities, both Layer I and Layer II displayed the natural stratigraphy of the landscape.

SHOVEL PROBE 2 (E 600754/ N 2368348)

The archaeological purpose of Shovel Probe 2 (SP-2) was to investigate for possible subsurface archaeological cultural deposits, features and/or artifacts in the vicinity of the surface finds. Shovel Probe 2 was placed next to the location of a basalt flake (Flake 1), on the northern shoulder of a dirt road in the southern part of the project area (Figure 20). Measuring

approximately 0.3 m long and 0.3 m wide, SP-2 was excavated to a maximum depth of 0.63 m below the soil surface. The north wall of SP-2 was oriented east-west (105°/285° magnetic). Although no cultural material was found during the excavation of SP-2, the stratigraphic sequence was exposed (see below). The excavation of SP2 revealed the presence of two soil strata (Figure 24. Figure 25).

- Layer I (0-36 cmbs) was a compact, dark reddish brown (2.5YR 3/4, dry) clayey silt. Lower boundary is diffused. No cultural materials were found. Due to diffuse lower boundary, LI is interpreted as a natural stratum.
- Layer II (36-63 cmbs) was a compact, dark reddish brown (2.5YR 2.5/4, dry) clayey silt. No cultural materials observed. Since LI is interpreted as a natural stratum, LII is also interpreted as a natural stratum.

Excavation of Shovel Probe 2 revealed that the subsurface of this portion of the project area has not been strongly impacted by mechanical or human activities. Both Layer I and Layer II displayed the natural stratigraphy of the landscape.

SHOVEL PROBE 3 (E 600653/ N 2368398)

The archaeological purpose of Shovel Probe 3 (SP-3) was to investigate for possible subsurface archaeological cultural deposits, features and/or artifacts in the vicinity of the surface finds. Shovel Probe 3 was placed on the south side of the earthen berm, south of the second basalt flake that was found (Flake 2) (Figure 20). The ground is slightly sloped (about 4 degrees east-west) and moderately covered in tall grass and *koa haole*. Measuring approximately 0.3 m long and 0.3 m wide, SP-3 was excavated to a maximum depth of 0.52m below the soil surface. No archaeological cultural material was found during the excavation of SP-3. The excavation of SP-3 revealed the presence of four soil strata (Figure 26, Figure 27).

- Layer I (0-5 cmbs) was a dark reddish brown (2.5YR 3/4) loose loamy clay with much leaf litter and decomposing organics. No cultural materials were observed.
- Layer II (5-14 cmbs) was a dark reddish brown (2.5YR 2.5/4) loose, humic clay with micro roots and rootlets. Thin, black modern plastic (agricultural covering) was found. Due to the presence of the plastic, LI is interpreted as an agriculturally disturbed natural stratum.
- Layer III (14-27/31 cmbs) was a very compact, dark red (2.5YR 3/6) medium coarse crumb clay. The lower boundary was indistinct and only differed in texture. No cultural materials were observed
- Layer IV (27/31-52 cmbs) was a dark red (2.5YR 3/6) fine clay. No cultural materials were observed

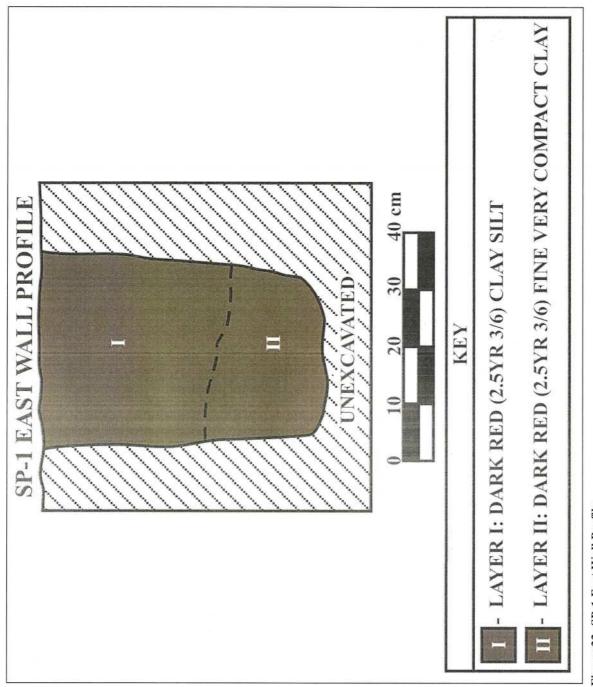


Figure 22: SP-1 East Wall Profile.

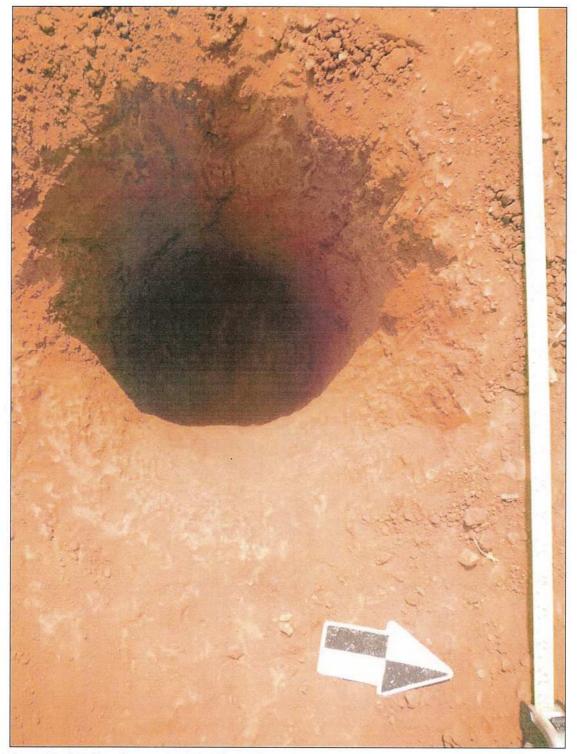


Figure 23: SP-1 Post Excavation Plan View. View to West.

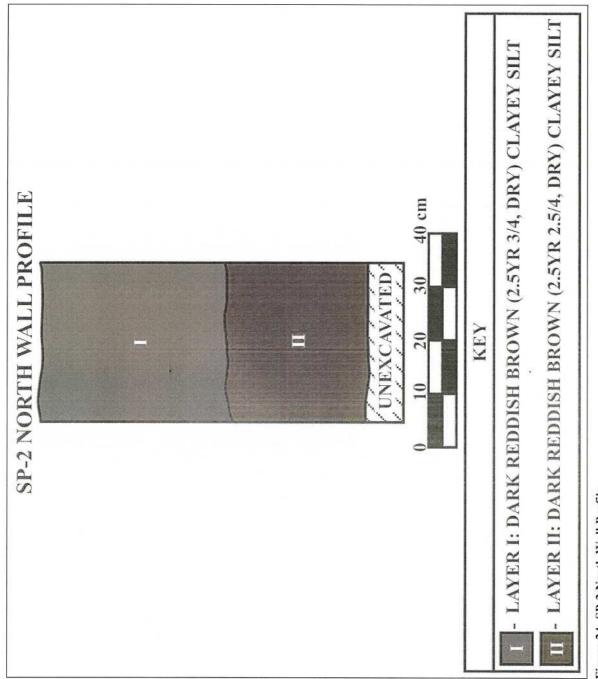


Figure 24: SP-2 North Wall Profile.

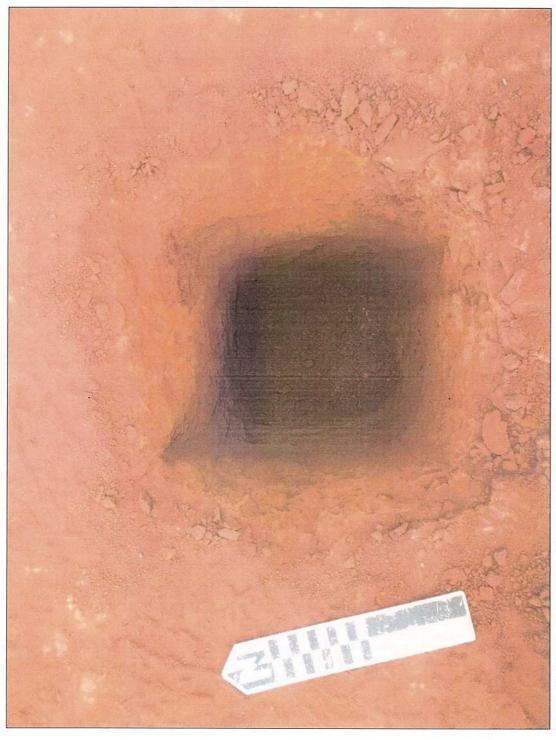


Figure 25: SP-2 Post Excavation Plan View. View to Northeast.

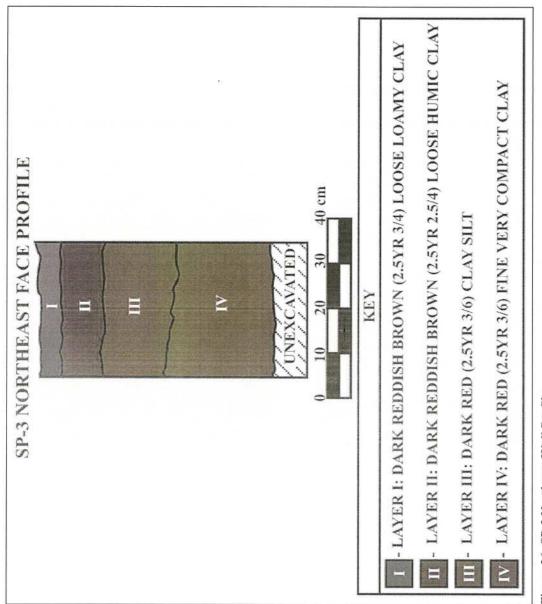


Figure 26: SP-3 Northeast Wall Profile.

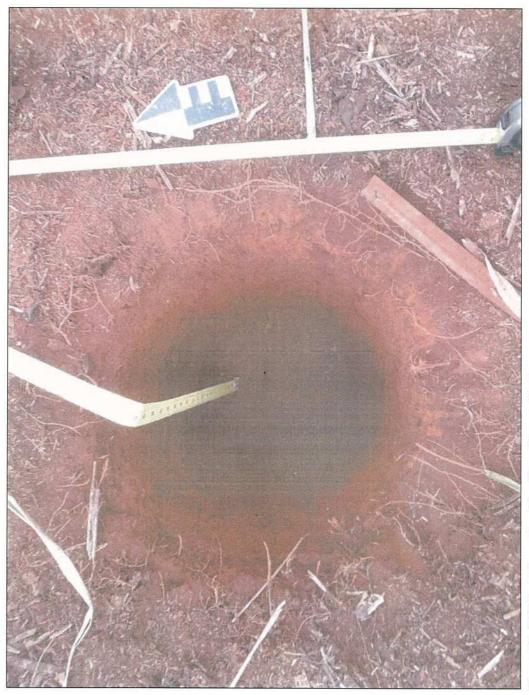


Figure 27: SP-3 Post Excavation Plan View. View to North.

Excavation of Shovel Probe 3 revealed the natural stratigraphy of the landscape. Despite the agriculturally disturbed Layer I, the subsurface of this portion of the project area has not been strongly impacted by mechanical or human activities.

SHOVEL PROBE 4 (E 600755/ N 2368323)

The archaeological purpose of Shovel Probe 4 (SP-4) was to investigate for possible subsurface archaeological cultural deposits, features and/or artifacts in the vicinity of the surface finds. Shovel Probe 4 was placed approximately 24 m south of SP-2, particularly on the south side of a tall (about 2 m) mechanically created earthen berm (Figure 20). SP-4 was also placed based on a polished basalt flake that was found on the surface 2 m north of SP-2. Measuring approximately 0.5 m long and 0.4 m wide, SP-4 was excavated to a maximum depth of 0.55 m below the soil surface. The west wall of SP-4 was found during the excavation of SP-4. The excavation of SP-4 revealed the presence of two soil strata (Figure 28, Figure 29).

- Layer I (0-15 cmbs) was a loose, dark reddish brown (2.5YR 2.5/4, dry) clayey silt with grass and short tree roots. The lower boundary is solid. A piece of thin, black plastic agricultural covering was observed. The presence of the thin black plastic suggest LI is a natural stratum disturbed by former agricultural activities.
- Layer II (15-55 cmbs) was a compact, dark reddish brown (2.5YR 2.5/4, dry) clayey silt with a few short tree roots. The lower boundary is diffuse. No cultural material observed. The presence of a diffuse lower boundary suggests LII is a natural stratum.

Excavation of Shovel Probe 4 revealed the natural stratigraphy of the landscape. Despite the agriculturally disturbed Layer I, mechanical or human activities have not adversely impacted the area below ground.

SHOVEL PROBE 5 (E 600301/ N 2368953)

The archaeological purpose of Shovel Probe 5 (SP-5) was to investigate for possible subsurface archaeological cultural deposits, features and/or artifacts in the vicinity of the four structures shown in this area on the 1927 USGS map (Figure 20). Shovel Probe 5 was placed approximately 6 m to the southeast of SP-6. The dirt road that passes by the four structures ends up at the location where SP-5 and SP-6 were excavated. The surface of SP-5 was relatively level and covered with live and decomposing grass and angular basalt gravel was scattered on SP-5's ground surface.

Measuring approximately 0.4 m long and 0.4 m wide, SP-5 was excavated to a maximum depth of 0.60 m below the soil surface. The west wall of SP-5 was oriented south-north (150°/330° magnetic). Both Modern and Historic cultural material were found. The excavation of SP-5 revealed the presence of one soil strata (Figure 30, Figure 31).

• Layer I (0-60 cmbs) was a compact, mottled dark brown (7.5YR 3/4, dry) clayey silt and dark reddish brown (2.5 YR 3/4, dry) silty clay with grass roots. Cultural material observed included asphalt chunks, mortar with angular basalt gravel, red ceramic sherds from subsurface utility lines, a vitrified ceramic sherd, a ceramic vessel sherd with decorated, black dust fence cloth, leather, tan colored plastic, and a flat, clear glass sherd.

Excavation of Shovel Probe 5 revealed a disturbed stratigraphy. The presence of the black dust fence cloth and the decorated ceramic sherd suggest modern and historic-type cultural material got mixed in the process of mechanically pushing local fill matrices where SP-5 was located.

SHOVEL PROBE 6 (E 600293/ N 2368963)

The archaeological purpose of Shovel Probe 6 (SP-6) was to investigate for possible subsurface archaeological cultural deposits, features and/or artifacts in the vicinity of the four structures shown in this area on the 1927 USGS map (Figure 20). Shovel Probe 6 measured approximately 0.4 m long and 0.4 m wide and was excavated to a maximum depth of 0.65 m below the soil surface. The surface of SP-6 was covered with live and decomposing grasses and was relatively level. The east wall of SP-6 was oriented north-south (015°/195° magnetic). Both Historic and Modern and Modern cultural material were found. The excavation of SP-6 revealed the presence of one soil strata (Figure 32, Figure 33).

 Layer I (0-65 cmbs) was a compact, mottled dark brown (7.5YR 3/4, dry) clayey silt and dark reddish brown (2.5 YR 3/4, dry) silty clay with grass roots and a few short tree roots. Cultural material observed includes asphalt chunks, mortar with angular basalt gravel, a ferrous metal framing nail, a ferrous metal round shaft nail, a pink rock, a plastic potato chip bag, basalt gravel, a white PVS pipe fragment, milled wood fragment, a clear glass jalousie fragment, and a piece of thin, black plastic agricultural covering.

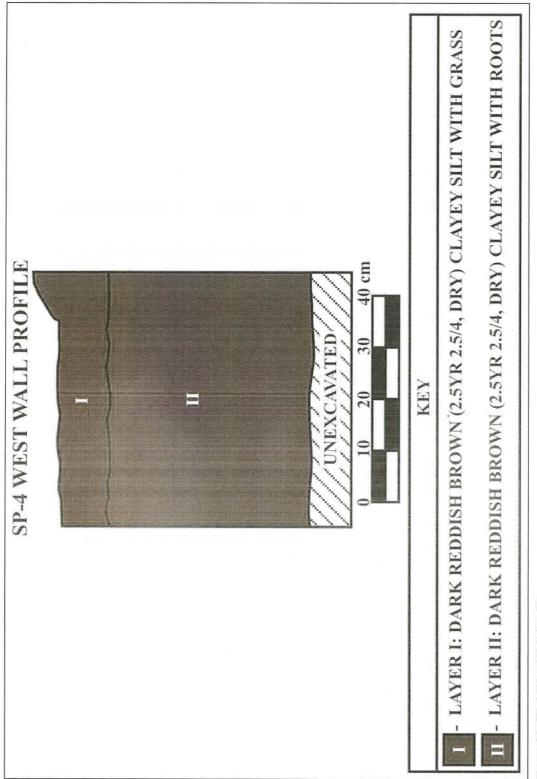


Figure 28: SP-4 West Wall Profile.



Figure 29: SP-4 Post Excavation Plan View. View to West.

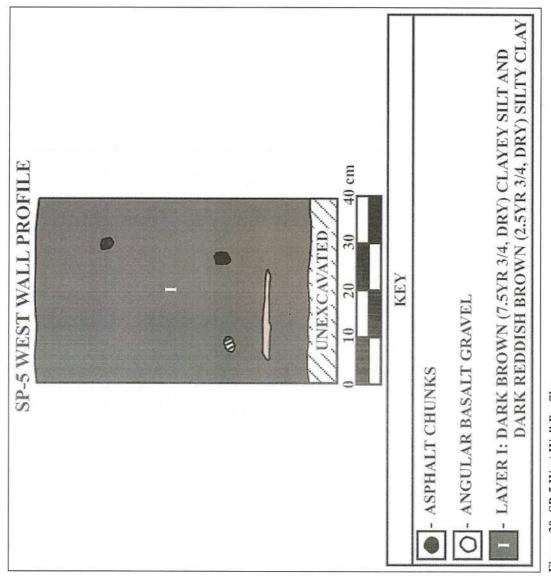


Figure 30: SP-5 West Wall Profile.

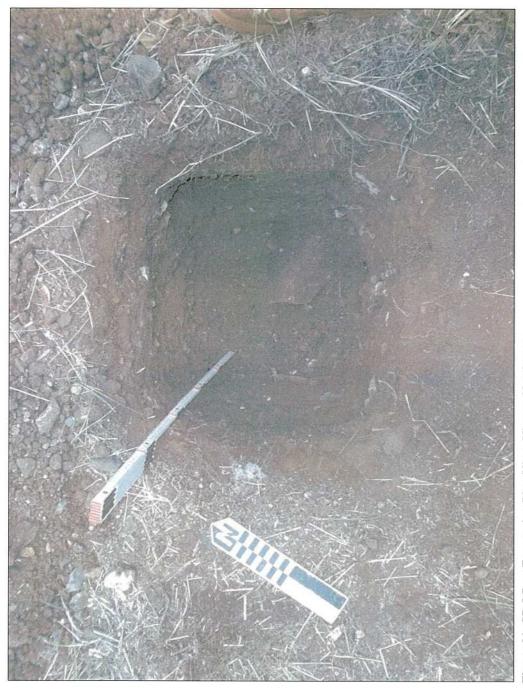
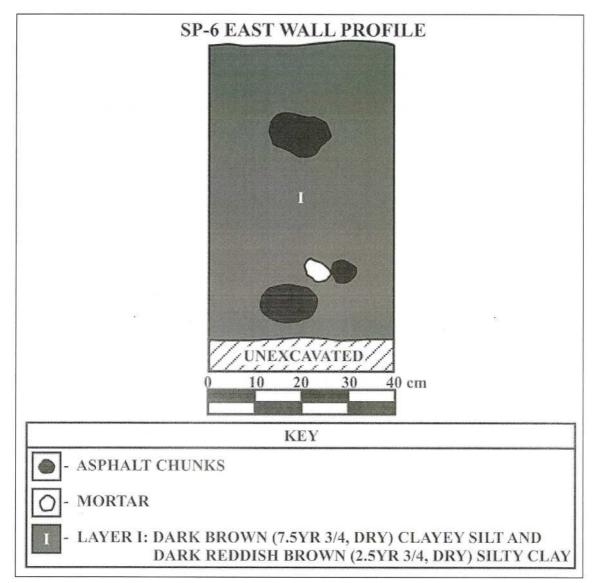
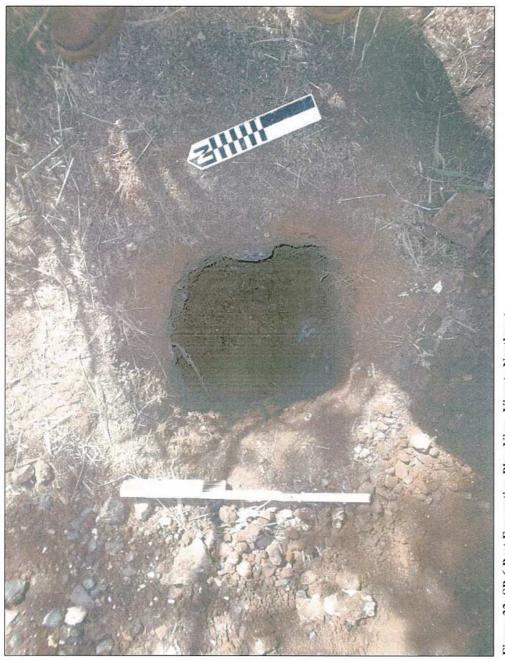


Figure 31: SP-5 Post Excavation Plan View. View to Northwest.







C

Figure 33: SP-6 Post Excavation Plan View. View to Northeast.

Excavation of Shovel Probe 6 revealed the presence of various Historic and Modern cultural material fragments. These fragments and the mottling of two soil types suggest LI was a local fill stratum.

ARTIFACT ANALYSIS

The cultural material collected from the surface survey and from the shovel probes were analyzed by lab manager, Guerin Tome, B.A., at the SCS O'ahu office. Twenty (20) Historic or Modern artifacts were collected from the TS-1 artifact scatter (subsequently determined not to be a site). Seven (7) Historic or Modern ferrous metal railroad spikes were collected from the surface of the Site 50-80-08-7671 corridor. Three (3) traditional Hawaiian artifacts (a basalt adze perform and two basalt flakes with polished facets) were found on the surface of a plantation road in the southern portion of the project area. Eleven (11) Historic and Modern artifacts were collected and analyzed from SP-5. Eleven (11) Historic and Modern artifacts were collected and analyzed from SP-6. An inventory and photographs of the cultural materials are provided in Appendix A.

DISCUSSION AND CONCLUSION

Scientific Consultant Services (SCS), Inc. conducted an Archaeological Inventory Survey of approximately 161 acres of land in preparation for the placement of a solar panel farm located in Kunia, Waikele Ahupua'a, 'Ewa District, Island of O'ahu, Hawai'i [TMK: (1) 9-4-002:052]. The current archaeological investigation followed one earlier Archaeological Walk-Through Survey conducted by Archaeological Consultants of Hawaii in 1988 (Kennedy 1988) which identified no archaeological sites.

Based on the 1927 USGS Waipahu Quadrangle Map (see Figure 4) it appeared likely that a variety of Plantation-era structures, including roads, railway alignments, houses and structures, ditches, and a reservoir) might be identified in the project area (ten potential Historic sites are marked on Figure 4). Of these, only one was identified in the project area during the current survey.

The current SCS archaeological study initially identified two new surface and subsurface sites, SCS Site TS-1 (a loose artifact scatter including modern and historic artifacts along a modern road) and State Site 50-80-08-7671 (a Historic road and railroad alignment, this corridor is designated as potential feature "I" on Figure 4). After email

consultations with SHPD, SCS TS-1 was determined to lack sufficient site integrity to be assigned a State Site number.

The dearth of archaeological sites in the project area could be largely attributed to the impact of continuing agricultural activities on the area. As the current archaeological investigation has revealed, there has been mechanical disturbance to the surface and subsurface of a large portion of the project area due to agricultural activities.

SIGNIFICANCE ASSESSMENTS AND RECOMMENDATIONS

The single site (State Site 50-80-08-7671) identified during the current Archaeological Inventory Survey in the Ho'ohana project area is a Historic road complex comprised of an alignment (Feature 1), a wall associated with water diversion (Feature 2), and disturbed remnants of a crushed coral road (Feature 3). This site was assessed for its significance as outlined in Hawai'i Administrative Rules §13-275-6. To be assessed as significant, a site must be characterized by one or more of the following five criteria:

- a) It must be associated with events that have made a significant contribution to the broad patterns of our history, or be considered a traditional cultural property.
- b) It must be associated with the lives of persons significant in the past.
- c) It must embody distinctive characteristics of a type, period, or method of construction, or represent a significant and distinguishable entity whose components may lack individual distinction.
- d) It must have yielded or may be likely to yield, information important in prehistory or history.
- e) Have important value to native Hawaiian people or other ethnicities in the state, due to associations with cultural practices and traditional beliefs that were, or still are, carried out.

State Site 50-80-08-7671 was assessed as significant under Criterion "d" for having yielded information about prior Historic land use, particularly in association with former plantation agriculture in the area.

No further work is recommended for the project area based on the findings of the previous archaeological study (Riford and Cleghorn 1986) and the current AIS, both of which indicate this area has been extensively cultivated, that no traditional Hawaiian archaeological sites or features are present on the surface, and what remains are remnant plantation features that have been adequately documented, and that little potential exists to encounter intact subsurface cultural deposits.

REFERENCES

Barrera, William

1985a Village Park, Waipahu, Oahu: Archaeological Reconnaissance. Chiniago, Honolulu.

1985b Waikele, Oahu: Archaeological Reconnaissance. Chiniago, Honolulu.

Chinen, Jon

- 1961 Original Land Titles in Hawaii. Copyright 1961 Jon Jitsuzo Chinen. Library of Congress Catalogue Card No. 61-17314.
- Cox, J.H. and E. Stasack
 - 1988 *Hawaiian Petroglyphs.* Bernice P. Bishop Museum Special Publication 60. Bishop Museum Press, Honolulu.

City and County of Honolulu Real Property Assessment and Tax Billing Information 2014 Property Search of Parcel ID TMK (1) 9-4-002:052. (www.honolulupropertytax.com). Accessed 6 June 2014.

Cordy, Ross

2002 The Rise and Fall of the O'ahu Kingdom. Mutual Publishing, Honolulu.

Daws, Gavin

1968 Shoal of Time: History of the Hawaiian Islands. University of Hawai'i Press. Honolulu.

Foote, Donald E., E.L. Hill, S. Nakamura, and F. Stephens

1972 Soil Survey of the Islands of Kaua'i, O'ahu, Maui, Molokai, and Lanai, State of Hawai'i. U.S. Department of Agriculture, Soil Conservation Science and University of Hawai'i Agricultural Experimentation Station. Washington D.C., U.S. Govt. Printing Office.

Fornander, Abraham

1969 An Account of the Polynesian Race, Its Origin and Migrations and the Ancient History of the Hawaiian People to the Time of Kamehameha I, Volume II. Tuttle and Co., Rutland, VT.

Hammatt, Hallett H., D. W. Shideler, and D. K. Borthwick

1988 Archaeological Reconnaissance Survey of the Waikakalaua Ammo Storage Tunnels Site, Waikele, 'Ewa, O'ahu. Cultural Surveys Hawai'i, Inc., Kailua, Hawaii.

Handy, E.S.Craighill, and E.G. Handy

1972 Native Planters in Old Hawaii: Their Life, Lore and Environment. B.P. Bishop Museum Bulletin 233. Bernice Pauahi Bishop Museum, Honolulu. Hussey, John A.

1962 *National Survey of Historic Sites and Buildings.* Bureau of Conveyances, Washington, DC.

Kamakau, Samuel M.

- 1991 *Ka Pō 'e Kahiko: The People of Old.* 1869-1870, Bishop Museum Press, Honolulu.
- 1992 Ruling Chiefs of Hawaii. Kamehameha Schools Press, Honolulu, HI.

Kame'eleihiwa, Lilikalā

1992 Native Land and Foreign Desires: Pehea La E Pono Ai? Bishop Museum Press, Honolulu.

Kelly, Marion

- 1983 Nā Māla o Kona: Gardens of Kona. Dept. of Anthropology Report Series 83-2. Bishop Museum. Honolulu.
- 1998 Gunboat Diplomacy, Sandalwood Lust and National Debt, In *Ka Wai* Ola OHA, Vol. 15, No. 4, April 1998.

Kennedy, Joseph

- 1987 A Walk Through Reconnaissance of a 203.171 Acre Piece of Property Located at TMK 9-4-04, Ahupua 'a of Hō 'ae 'ae, 'Ewa, Island of O 'ahu. Archaeological Consultants of Hawaii, Haleiwa.
- 1988 Archaeological Walk-Through Survey of the Proposed Royal Kunia, Phase II (TMK: 9-4-02:por. 1 & 91), Ahupua'a of Hawea, Ewa, Island of O'ahu. Archaeological Consultants of Hawaii, Haleiwa.

Kirch, Patrick V.

- 1985 Feathered Gods and Fishhooks: An Introduction to Hawaiian Archaeology and Prehistory. University of Hawai'i Press, Honolulu.
- 2011 "When did the Polynesians Settle Hawai'i?" Hawaiian Archaeology 12:3-26.

Kirch, Patrick V. and M. Sahlins 1992 Anahulu. Vol. 1 and 2. University of Chicago Press. Chicago.

Kuykendall, Ralph S.

1938 The Hawaiian Kingdom, 1778-1854 University of Hawaii, Honolulu.

Lucas, Paul F.

1995 *A Dictionary of Hawaiian Legal Land-Terms*. Published by Native Hawaiian Legal Corporation, Honolulu, and the University of Hawaii Committee for the Preservation and Study of Hawaiian Language, Art and Culture, Honolulu.

Lyons, C.J.

1875 Land Matters in Hawaii. The Islander, Vol. I. Honolulu.

McAllister, J. Gilbert

1933 Archaeology of Oahu. Bernice Pauahi Bishop Museum Bulletin 104. Bernice Pauahi Bishop Museum, Honolulu.

Mills, Peter R.

1993 Archaeological Inventory Survey of Specified Lands at Waikele, O'ahu, Hawai'i (Area A: TMK 9-4-07:32 and 9-4-04:12; Area B: TMK 9-4-07:66 and 9-4-05:9). BioSystems Analysis, Inc., Kailua, HI.

Office of the Commissioner of Public Lands of the Territory of Hawaii

1929 Indices of Awards made by the Board of Commissioners to Quiet Land Titles in the Hawaiian Islands.

Price, S.

1983 Climate. In *Atlas of Hawaii* (2nd edition), ed. by R.W. Armstrong. University of Hawaii Press, Honolulu.

Pukui, Mary K. and S. Elbert

1986 Hawaiian Dictionary, 2nd Edition. University of Hawaii Press, Honolulu..

Pukui, Mary K., S. Elbert and E. Mookini

1974 Place Names of Hawai'i. University of Hawaii Press, Honolulu.

Riford, Mary F. and P. Cleghorn

1986 Archaeological Survey of Portions of Lualualei Naval Magazine, Waikele Branch. Bernice P. Bishop Museum, Honolulu.

State of Hawai'i Administrative Rules

2002 "Rules Governing Standards for Archaeological Monitoring Studies and Reports." Department of Land and Natural Resources and the State Historic Preservation Division. §13-279-4. Hawai'i, 2002.

Sterling, Elizabeth P., and C.C. Summers

1978 *Sites of Oahu*. Department of Anthropology, Department of Education, Bernice Pauahi Bishop Museum, Honolulu.

Titchenal, Paul, J. Walden, and S. D. Clark

2013 An Archaeological Assessment for a Proposed Photovoltaic Project in Kunia, Hō'ae'ae, Ahupua'a, 'Ewa, Island of O'ahu TMK: (1) 9-4-004:004. Pacific Consulting Services, Inc., Honolulu.

Tomonari-Tuggle, M.J. and D.J. Welch

1994 Historical Review and Archaeological Survey of NAVMAG – Waikele, Waikele, Oʻahu. International Archaeological Research Institute, Honolulu.

Tomonari-Tuggle, M.J. and C. Erkelens

1995 Archaeological Survey of a 46 kV Sub-Transmission Line Through NAVMAG-Waikele, Waikele, O'ahu. International Archaeological Research Institute, Inc., Honolulu.

Waihona 'Aina Corporation

2014 Māhele Database. (www.waihona.com). Accessed June 2014. Kailua, Hawaii.

Walden, Jackie, P. Titchenal, and S. D. Clark

2013 An Archaeological Assessment for a Proposed Photovoltaic Project in Kunia, Hō 'ae 'ae and Waikele Ahupua 'a, 'Ewa, Island of O 'ahu TMK: (1) 9-4-002:050 and 9-4-002:064. Pacific Consulting Services, Inc., Honolulu. APPENDIX A

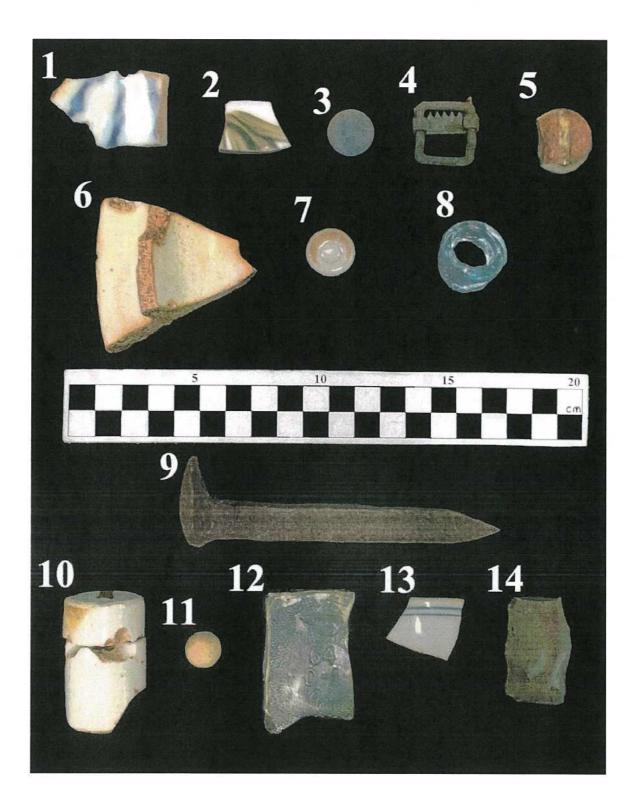
Bag		Feature	Excavation Unit	Layer	Depth	Collected Item	Measurements	Count	Remarks
IA	TS-1	-	3	Surface	3	Porcelain Base Sherd	Thickness: 0.8–1.2 cm	-	Vessel type unknown; exterior and interior glazed, interior hand painted with blue lines under glaze. Designated Artifact #1.
IB	TS-1	-		Surface	3	Porcelain Bowl Rim Sherd	Thickness: 0.4–0.5 cm	-	Exterior and interior glazed, interior hand painted with two blue lines under glaze parallel to rim circumference, exterior hand painted tan colored leaves under glaze. Designated Artifact #2.
IC	TS-1	-	d.	Surface	ĉ	Porcelain Body Sherd	Thickness: 0.4–0.5 cm	-	Vessel type unknown; exterior and interior glazed, interior and exterior hand painted with blue, indistinguishable lines under glaze. Designated Artifact #3.
ID	I-ST		T.	Surface	r.	1908 Copper Indian Head Penny	Diameter: 1.9 cm Thickness: 0.1 cm Weight: 2.9 g	÷	Origin of manufacture corroded. Designated Artifact #4.
E	TS-1	-	1	Surface	r	Brass Strap Buckle Fragment	Length: 2.7 cm Width: 2.5 cm Weight: 7.1 g	-	Gripped portion of artifact stamped Pat 1225.06. Artifact patented December 25, 1906. Designated Artifact #5.
н	I-ST	1	ж	Surface		Ferrous Metal Nail	Length: 2.6 cm Weight: 1.0 g	-	Extremely corroded, bent shaft. Designated Artifact #6.
1G	I-ST	-	Т	Surface	15.1.1	Bottle Glass Heel Sherd	Ť	-	See below. Designated Artifact #7.

	Remarks	Designated Artifact #8.	Interior ring foot for lid interior seating present. Designated Artifact #9.	Also known as construction gravel. Designated Artifact #10.	Obverse convex, reverse flat with missing knob. Designated Artifact #11.	Light blue, inner mouth offset, tooled finish (1880s to 1920s). Designated Artifact #12.	Light green, embossed. Embossment: 1st line (horizontal):ADE, 2nd line (horizontal): REGISTE Designated Artifact #13.	Semi-oval head in plan view, square shaft, two shaft sides come to a bevel; artifact corroded. Designated Artifact #14.	Light aqua-marine, embossed. Embossment: WAIP Designated Artifact #15.	Clear, automatic machine made, one side flat with an embossed five leaf tree branch. Designated Artifact #16.
	Count	-	-	-	-	-	-	-	-	-
	Measurements	Diameter: 2.5 cm	1	1	Diameter: 1.9 cm Thickness: 0.4 cm Weight: 2.3 g	Mouth diameter (inner): 1.8 cm	1	Length: 12.1 cm Weight: 156.6 g	1	1
CONT.)	Collected Item	Porcelain Lightning Stopper Fragment	Whiteware Jar Lid Sherd	Quarried Basalt Rock	Milk Glass Button	Glass Bottle Finish Sherd	Glass Bottle Shoulder Sherd	Ferrous Metal Railroad Spike	Glass Bottle Heel Sherd	Glass Bottle Neck Sherd
INVENTORY (CONT.)	Depth	J	a.	1	L	L		1	а	3
	Layer	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
PROJECT 1544 CULTURAL MATERIAL	Excavation Unit	ı	ı	3.	I	E,	1	1	T	t
44 CULTU	Feature	1	-	1	1	1	-	1	1	1
ECT 154	Site	I-S-I	TS-1	TS-1	TS-I	I-ST	I-ST	TS-1	I-ST	TS-1
PROJ	Lab Bag	HI	П	11	IK	IL	IM	N	10	IP

		ain ied 7.		19.	, 4th : date	ior d der	oval		d d ver cel-
		Ferrous metal nail through porcelain length, top half of artifact embossed with indistinguishable letters and numbers. Designated Artifact #17.	surface.	See below. Designated Artifact #19.	ital): D-1 e nufacture	Exterior and interior glazed, exterior hand painted with two teal colored lines parallel to the bowl's rim under glaze. Designated Artifact #20.	Artifact severely corroded, semi-oval head, square shaft with two sides creating a bevel.	Also known as construction gravel.	Vessel type unknown, exterior and interior glazed white, interior hand painted with thin, silver streaks over glaze, exterior surface is orange peel- like.
		ail throug of artifac shable le gnated Aı	Tan colored, undulated surface. Designated Artifact #18.	signated ,	: (horizor tal I. Th 3ottle ma	Exterior and interior glazed, exi hand painted with two teal colo lines parallel to the bowl's rim t glaze. Designated Artifact #20.	y corrode aft with t	construct	nown, ex white, int n, silver i urface is
	ks	s metal n top half distingui rs. Desi	lored, un ated Art	low. Des	, 3rd line is a capi 1954. F	r and int ainted w arallel to Designa	Artifact severely head, square sha creating a bevel.	10Wn as	type unk glazed v with thi exterior s
	Remarks	Ferrou length, with in numbe	Tan co Design	See be	ntal): 64 ersection 1 1929 to	Exteric hand p lines p glaze.	Artifac head, s creatin	Also ki	Vessel interior paintec glaze, (like.
	Count	-	-	-	e (horizo n the inte ized from	-	-	1	
					o, 2nd lin and withi was util	4 cm			
	ments	1.6 cm :: 2.8 cm 58.0 g	:: 1.3 cm 2.7 cm		er's stam liamond a r's stamp	s: 0.3–0.	0.6 cm 56.0 g		s: 1.1 cm
	Measurements	Length: 4.6 cm Diameter: 2.8 cm Weight: 58.0 g	Diameter: 1.3 cm Weight: 2.7 cm	1	mufacture rizontal d nufacture	Thickness: 0.3-0.4 cm	Length: 10.6 cm Weight: 56.0 g	1	Thickness: 1.1 cm
	Item	Knob	ole	d	ntal): ma d by a ho icular ma		letal spike	3asalt	9-19
('LNOC	Collected Item	Porcelain Knob and Tube Wiring Insulator	Clay Marble	Glass Bottle Base Sherd	ine (horizo intersecte This parti	Porcelain Bowl Rim Sherd	Ferrous Metal Railroad Spike	Quarried Basalt Rock	Creamware Base Sherd
INVENTORY (CONT.)	Depth		1	L.	Clear, textured with dots and embossed. Base embossment: 1st line (horizontal): manufacturer's stamp, 2nd line (horizontal): 64 , 3rd line (horizontal): D-1 , 4th line (horizontal): 44 . The manufacturer's stamp is a vertical oval intersected by a horizontal diamond and within the intersection is a capital I . The manufacturer is Owens Illinois Glass Company of Toledo, Ohio. This particular manufacturer's stamp was utilized from 1929 to 1954. Bottle manufacture date (based on the manufacturer's stamp and the 44): 1944.	1	L:	1	10 cmbs
UAL INVE	Layer	Surface	Surface	Surface	Base emboss stamp is a v npany of Tol ne 44): 1944.	Surface	Surface	Surface	н
PROJECT 1544 CULTURAL MATERIAL	Excavation Unit	,	1	1,	Clear, textured with dots and embossed. Base e line (horizontal): 44. The manufacturer's stamp manufacturer is Owens Illinois Glass Company (based on the manufacturer's stamp and the 44):		L	SP-5	SP-5
TURAI					ts and er The manu Illinois turer's st			1	
44 CUL	Feature	-	-	-	with do l): 44. T s Owens nanufact	1	7	а Т	т
ECT 15	Site	TS-1	TS-1	TS-1	textured orizonta acturer i	TS-1	TS-2	a	Ĩ.
PROJ	Lab Bag	Ŋ	IR	IS	Clear, line (h manuf (based	L	5	3	4

	Remarks	Sherd from subsurface utility pipe sherd, exterior and interior fired.	Sherd from subsurface utility pipe sherd, exterior and interior fired.	Clear, non-diagnostic.	Also known as construction gravel.		Tan colored.	Black colored.	Sherd from subsurface utility pipe sherd, exterior and interior fired.	Sherd from subsurface utility pipe sherd, exterior and interior vitrified.	One side textured with short curvy lines, opposite side smooth and non- textured.	Corroded, bent.	Round head with round shaft.	White colored.
	Count	-	-	-	-	-	-	-	-	-		-	-	-
	Measurements	Thickness: 1.2 cm	Thickness: 1.2 cm	Thickness: 0.3 cm	E	1	F	£	Thickness: 1.2 cm	Thickness: 1.4 cm	T	1	E	1
CONT.)	Collected Item	Red Ceramic Utility Pipe Sherd	Red Ceramic Utility Pipe Sherd	Flat Glass Sherd	Quarried Basalt Rock	Mortar with Basalt Gravel	Leather Fragment	Dust Fence Cloth	Red Ceramic Utility Pipe Sherd	Red Ceramic Utility Pipe Sherd	Glass Jalousie Window Sherd	Ferrous Metal Duplex Nail	Ferrous Metal Wire Nail	Plastic PVC Pipe Fragment
INVENTORY (CONT.)	Depth	24 cmbs	33 cmbs	0-60 cmbs	0–60 cmbs	0–60 cmbs	0–60 cmbs	0–60 cmbs	0–60 cmbs	0–60 cmbs	0–65 cmbs	0–65 cmbs	0–65 cmbs	0-65 cmbs
	Layer	Ι	H	Ι	Ι	I	I	I	I	I	I	I	1	п
PROJECT 1544 CULTURAL MATERIAL	Excavation Unit	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-6	SP-6	SP-6	SP-6
4 CULTU	Feature	Ĩ	r.	1		1	E.	E.	r	12	a	1	ε	
ECT 154	Site	1.	E	a.	T	ı	E	E	ı	r	а	1	i.	1
PROJ	Lab Bag	5A	5B	9	9	9	9	9	9	9	٢	7	2	7

	Remarks		White colored.	Thin, black colored.		Pink colored.			Distal end, dorsal displays cortex, irregular trapezoidal cross-section. Artifact found at GPS coordinates (<u>+2</u> m accuracy): East 600635/ North 2368391 on existing dirt road.	Flake has two adjoining, polished facets. Artifact found at GPS coordinates (±2 m accuracy): East 600750/ North 2368349.	Flake has two adjoining, polished facets. Artifact found at GPS coordinates (<u>+</u> 2 m accuracy): East 600669/ North 2368381.
	Count	-	-	-	-	-	-	-	-	-	-
	Measurements	ı	0				6	-	Length: 4.1 cm Width: 2.5 cm Thickness: 1.8 cm Weight: 26.7 g	1	ĩ
ONT.)	Collected Item	Plastic Potato Chip Bag Fragment	Styrofoam Fragment	Plastic Agricultural Cover Fragment	Milled Wood Fragment	Construction Rock	Mortar with Basalt Gravel	Asphalt Fragment	Basalt Adze Preform	Basalt Flake with Polished Facets	Basalt Flake with Polished Facets
INVENTORY (CONT.)	Depth	0–65 cmbs	0–65 cmbs	0–65 cmbs	0–65 cmbs	0-65 cmbs	0–65 cmbs	0-65 cmbs	r.	3	
AL INVER	Layer	I	I	Ţ	I	-	Ι	I	Surface	Surface	
PROJECT 1544 CULTURAL MATERIAL	Excavation Unit	SP-6	SP-6	SP-6	SP-6	SP-6	SP-6	SP-6		ĩ	
CULTUR	Feature		1	1	1	1	Ĵ.	1	Υ.	1	
ECT 1544	Site	i.	1	1	1	ı	I.		Project Area Surface	Project Area Surface	Project Area Surface
PRO.	Lab Bag	7	7	7	7	7	2	7	8	6	10



 \bigcirc

 \bigcirc

SCS Project 1544 Selected Artifacts Photo

- 1. Lab Bag 1A: Porcelain base sherd, interior.
- 2. Lab Bag 1B: Porcelain bowl rim sherd, exterior.
- 3. Lab Bag 1D: 1908 Copper U.S. Indian-Head penny obverse.
- 4. Lab Bag 1E: Brass strap buckle fragment, ventral.
- 5. Lab Bag 1H: Porcelain Lightning stopper fragment, underside.
- 6. Lab Bag 1I: Whiteware jar lid sherd, underside.
- 7. Lab Bag 1K: Milk glass button, reverse.
- 8. Lab Bag 1L: Glass bottle flat ring finish sherd.
- 9. Lab Bag 1N: Ferrous metal railroad spike.
- 10. Lab Bag 1Q: Porcelain knob and tube wiring insulator.
- 11. Lab Bag 1R: Clay marble.
- 12. Lab Bag 1S: Glass bottle base sherd.
- 13. Lab Bag 1T: Porcelain bowl rim sherd, exterior
- 14. Lab Bag 8: Basalt adze preform, dorsal.