

APPENDIX D

OE INVESTIGATION RESULTS

APPENDIX D

This appendix presents a summary of results for all field activities (November 2000 - May 2001) conducted in support of the Phase II Engineering Evaluation/Cost Analysis (EE/CA), Former Waikoloa Maneuver Area and Nansay Sites, Island of Hawai'i, Hawai'i.

Table D-1 summarizes the results of the Phase II EE/CA field investigation and includes the number of unexploded ordnance (UXO), ordnance and explosives (OE) scrap, and small arms recovered in each investigated sector at the Former Waikoloa Maneuver Area and Nansay Sites. Sector 8 was not investigated during the EE/CA because right-of-entry was denied during the EE/CA field investigation.

Table D-1. Summary of Phase II EE/CA Field Investigation Results

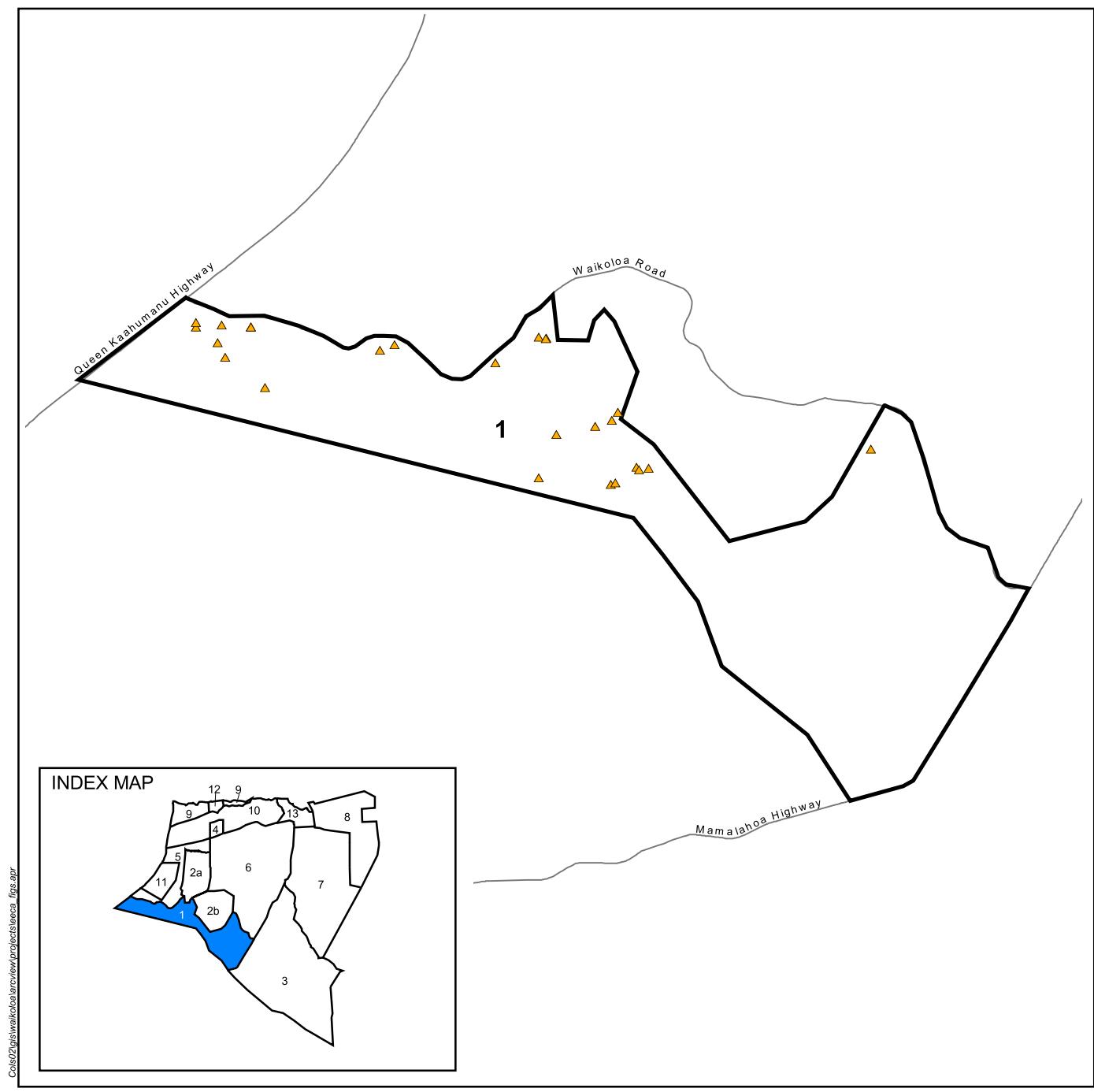
Sector Number	Sector Name	Number of UXO	Number of OE Scrap	Number of Small Arms
1	Kaniku Lava Flow	--	31	--
2a	Waikoloa Village - West	3	954	6
2b	Waikoloa Village - East	--	27	--
3	Keamuku	--	--	804
4	Lalamilo Wind Farm	3	350	5
5	Waikoloa Road	1	64	--
6	Pu'u Pa Maneuver Area	4	84	250
7	Holoholoku	--	14	13
9	Kawaihae Road	2	--	--
10	Lalamilo State Land	14	192	--
11	Puako Parcel	4	258	--
12	O'uli Parcel	6	185	263
13	West Waimea/Kamuela Airport	1	1	2
Total		38	2,160	1,343

OE = ordnance and explosives

UXO = unexploded ordnance

For each of the investigated sectors, a detailed summary table is provided showing the number and type of UXO, OE scrap, and small arms recovered during each phase (i.e., visual reconnaissance, grid survey, surface clearance, geophysical mapping, anomaly reacquisition, and OE sampling) of the Phase II EE/CA field investigation. For those items recovered in an investigated grid, grid numbers indicating the location of the recovered item are provided. Figures D-1 through D-12 show the locations of all recovered UXO and OE scrap in each of the investigated sectors. In cases where multiple UXO items were recovered from one single location, the number of UXO recovered at that one location are shown schematically on the figure. However, if multiple OE scrap items were recovered from one single location, only one OE scrap symbol is indicated on the respective figure. Because small arms do not indicate the potential for explosive hazard, locations of these items are not indicated on the figures; however, a detailed list showing the types of small arms recovered during the Phase II EE/CA

field investigation is provided for each sector, if applicable. A total of 38 UXO and 2,160 OE scrap items (totaling approximately 370 pounds) were recovered during the Phase II EE/CA field investigation. Thirty-six of the 38 UXO items (95 percent) and 1,963 of the 2,160 OE scrap items (91 percent) were recovered on the surface. UXO was recovered at depths up to 6 inches below ground surface. OE scrap was recovered at depths up to 20 inches below ground surface.



EXPLANATION

- ▲ OE Scrap
- 1 Sector Number
- Roads

**Sector 1
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites**

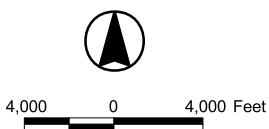


Figure D-1

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Investigation Results
Sector 1 - Kaniku Lava Flow

Type	Grid	Description	Quantity	Depth (inches bgs)
Visual Reconnaissance				
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	1	surface
Anomaly Investigation and OE Sampling				
OE Scrap	--	Frag	1	surface
Visual Surface Searches				
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface

Total UXO in Sector 1:

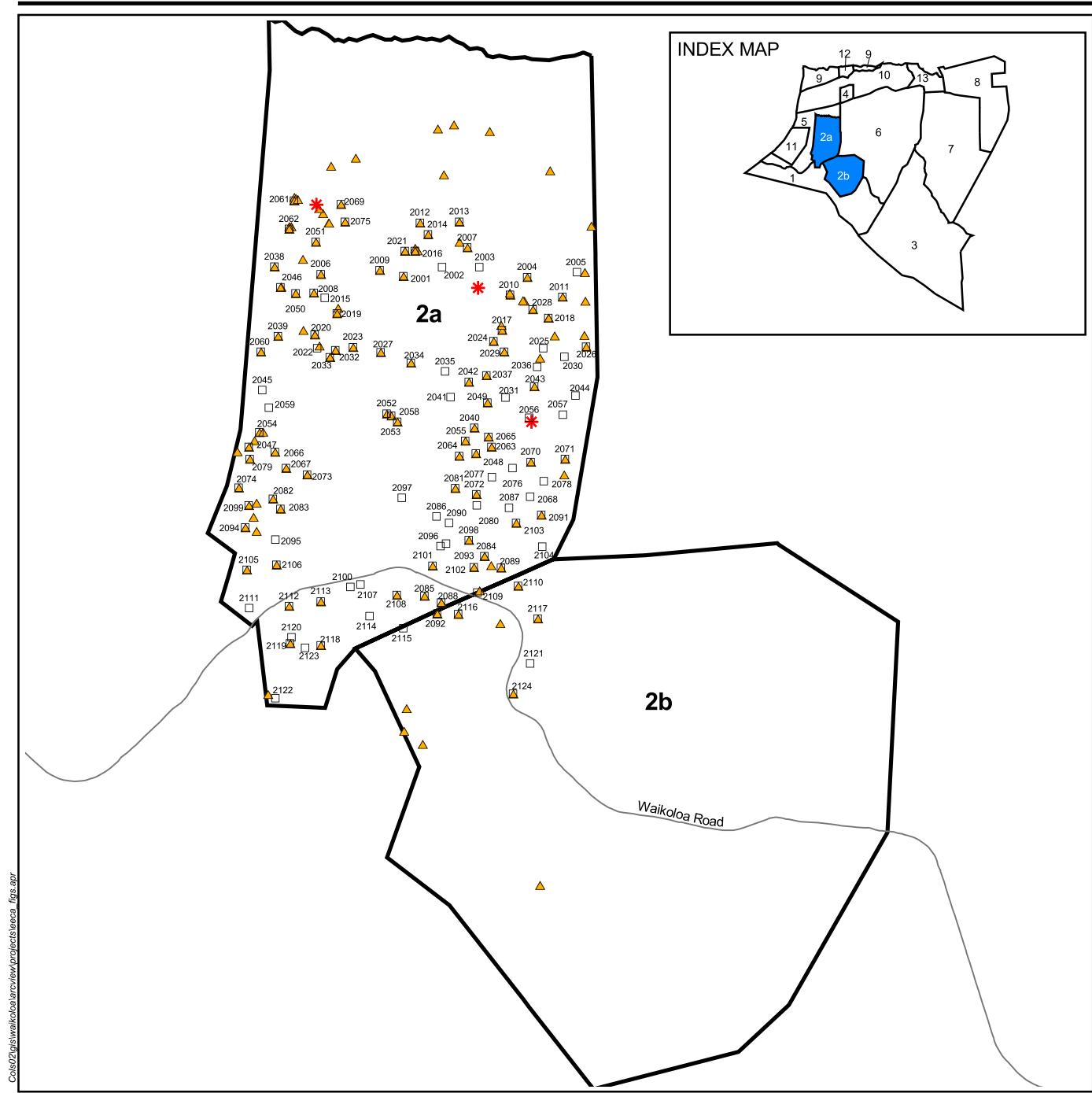
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Total OE Scrap in Sector 1:

31

Total Small Arms in Sector 1:

0



EXPLANATION

- * UXO
- ▲ OE Scrap
- Sampling Grids (100 feet x 100 feet)
- 2a Sector Number
- Roads

**Sectors 2a and 2b
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites**



Figure D-2

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Investigation Results
Sector 2a - Waikoloa Village (West)

Type	Grid	Description	Quantity	Depth (inches bgs)
Grid Survey				
UXO	--	75mm projectile - HE	1	surface
OE Scrap	--	Fuze	1	surface
OE Scrap	--	75mm projectile - HE	1	surface
OE Scrap	--	Mechanical time fuze	1	surface
OE Scrap	--	Mechanical time fuze	1	surface
OE Scrap	--	Mechanical time fuze	1	surface
OE Scrap	--	75mm white phosphorus - empty	1	surface
Surface Clearance of Grids and Geophysical Transects				
UXO	02010	75mm projectile - HE, unfuzed	1	surface
OE Scrap	02001	Frag	5	surface
OE Scrap	02004	Frag - 75mm/105mm	20	surface
OE Scrap	02006	Frag	7	surface
OE Scrap	02008	Frag	2	surface
OE Scrap	02009	Frag	5	surface
OE Scrap	02010	Frag - 105mm	3	surface
OE Scrap	02011	Frag - 105mm	3	surface
OE Scrap	02012	Frag - 105mm	3	surface
OE Scrap	02013	Frag - 75mm	20	surface
OE Scrap	02014	Frag - 105mm	1	surface
OE Scrap	02016	Fuze - 557	2	surface
OE Scrap	02016	Fuze - M54	1	surface
OE Scrap	02016	Frag - 105mm	50	surface
OE Scrap	02017	Frag	2	surface
OE Scrap	02018	Fuze - suspected	1	surface
OE Scrap	02018	Frag - 105mm	3	surface
OE Scrap	02018	Frag	2	surface
OE Scrap	02019	Frag	1	surface
OE Scrap	02020	Fuze - Tbar	1	surface
OE Scrap	02020	Frag	6	surface
OE Scrap	02021	Fuze - 557	1	surface
OE Scrap	02021	Frag - 105mm	40	surface
OE Scrap	02023	Frag	2	surface
OE Scrap	02024	Frag	2	surface
OE Scrap	02026	Frag - 105mm	1	surface
OE Scrap	02027	Frag - 75mm/105mm	6	surface
OE Scrap	02028	Fuze - M54 (partial)	1	surface
OE Scrap	02029	Frag	5	surface
OE Scrap	02032	Frag - fuze tip	1	surface
OE Scrap	02032	Frag	6	surface
OE Scrap	02033	Frag	39	surface
OE Scrap	02033	Fuze - M48	1	surface
OE Scrap	02033	Frag	5	surface
OE Scrap	02034	Frag - 105mm	3	surface
OE Scrap	02037	Frag	2	surface
OE Scrap	02038	Frag	17	surface
OE Scrap	02039	Frag	8	surface
OE Scrap	02040	Frag	10	surface
OE Scrap	02042	Frag - 105mm	5	surface
OE Scrap	02043	Frag - 105mm	7	surface
OE Scrap	02046	Frag	7	surface
OE Scrap	02047	Frag	9	surface
OE Scrap	02048	Frag	14	surface
OE Scrap	02049	Frag	1	surface
OE Scrap	02050	Frag	1	surface
OE Scrap	02051	Frag - 5-inch projectile	67	surface
OE Scrap	02052	Frag - 105mm	6	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Investigation Results
Sector 2a - Waikoloa Village (West)

Type	Grid	Description	Quantity	Depth (inches bgs)
Surface Clearance of Grids and Geophysical Transects (continued)				
OE Scrap	02053	Frag - 105mm/155mm	4	surface
OE Scrap	02054	Frag	10	surface
OE Scrap	02055	Frag - 105mm	1	surface
OE Scrap	02058	Frag - 105mm/155mm	20	surface
OE Scrap	02060	Frag - 105mm	5	surface
OE Scrap	02061	Fuze - Tbar	1	surface
OE Scrap	02061	Frag	35	surface
OE Scrap	02062	Frag - 155mm	1	surface
OE Scrap	02062	Frag	53	surface
OE Scrap	02063	Frag	13	surface
OE Scrap	02064	Frag - 105mm	8	surface
OE Scrap	02065	Frag	5	surface
OE Scrap	02066	Frag	15	surface
OE Scrap	02067	Frag	6	surface
OE Scrap	02069	Frag	33	surface
OE Scrap	02070	Frag - 105mm/155mm	6	surface
OE Scrap	02071	Frag	1	surface
OE Scrap	02072	Frag	5	surface
OE Scrap	02073	Fuze - Tbar	1	surface
OE Scrap	02073	Frag	12	surface
OE Scrap	02074	Frag	7	surface
OE Scrap	02075	Frag	63	surface
OE Scrap	02079	Frag	20	surface
OE Scrap	02081	Frag - 105mm	2	surface
OE Scrap	02082	Frag	1	surface
OE Scrap	02083	Frag	1	surface
OE Scrap	02084	Frag - 155mm	1	surface
OE Scrap	02084	Frag - 105mm	6	surface
OE Scrap	02085	Frag - 105mm	9	surface
OE Scrap	02088	Frag - 105mm	3	surface
OE Scrap	02089	Frag - 105mm	2	surface
OE Scrap	02091	Frag - 105mm	1	surface
OE Scrap	02094	Frag	4	surface
OE Scrap	02098	Frag	2	surface
OE Scrap	02099	Frag	16	surface
OE Scrap	02101	Frag - 105mm	1	surface
OE Scrap	02102	Frag	2	surface
OE Scrap	02103	Frag - 105mm	3	surface
OE Scrap	02105	Frag	1	surface
OE Scrap	02106	Frag	3	surface
OE Scrap	02108	Frag - 105mm	1	surface
OE Scrap	02112	Frag	3	surface
OE Scrap	02113	Frag	5	surface
OE Scrap	02118	Frag	1	surface
OE Scrap	02119	5-inch naval projectile - target practice round, fuzed	1	surface
OE Scrap	--	M-48 fuze	1	surface
Small Arms	02058	.30 caliber carbine cases	6	surface
Anomaly Investigation and OE Sampling				
UXO	--	105mm projectile - HE	1	surface
OE Scrap	02016	Frag	8	surface
OE Scrap	02016	Frag	3	surface
OE Scrap	02051	Frag	3	surface
OE Scrap	02051	M54 nose fuze	1	surface
OE Scrap	02061	Frag	1	surface
OE Scrap	02061	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	5	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Investigation Results
Sector 2a - Waikoloa Village (West)

Type	Grid	Description	Quantity	Depth (inches bgs)
Anomaly Investigation and OE Sampling (continued)				
OE Scrap	--	Frag	5	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	4.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	3.0
OE Scrap	--	Frag	4	4.0
OE Scrap	--	75mm shell (1/2 of it found)	1	surface
OE Scrap	--	105mm ejection base "MT"	1	surface
OE Scrap	--	Frag	6	surface
OE Scrap	--	Frag	2	6.0
OE Scrap	--	Frag	9	surface
OE Scrap	--	Frag	10	surface
OE Scrap	--	Frag	12	surface
OE Scrap	--	Frag	20	surface
OE Scrap	--	Frag	4	6.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	8	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	12	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	6	4.0
Visual Surface Searches				
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface

Total UXO in Sector 2a:

3

Total OE Scrap in Sector 2a:

954

Total Small Arms in Sector 2a:

6

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Investigation Results
Sector 2b - Waikoloa Village (East)

Type	Grid	Description	Quantity	Depth (inches bgs)
Grid Survey				
OE Scrap	--	Fuze collar - possible 12-inch	1	surface
OE Scrap	--	155mm base	1	surface
Surface Clearance of Grids and Geophysical Transects				
OE Scrap	02092	Frag - 105mm	8	surface
OE Scrap	02092	Frag - possible 8-inch round	1	surface
OE Scrap	02110	Frag - 105mm	2	surface
OE Scrap	02116	Frag - 105mm	3	surface
OE Scrap	02117	Frag - 155mm	2	surface
OE Scrap	02124	Frag - 105mm	3	surface
Anomaly Investigation and OE Sampling				
OE Scrap	--	Frag	2	surface
OE Scrap	--	81mm mortar body and tail	1	3.0
Visual Surface Searches				
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface

Total UXO in Sector 2b:

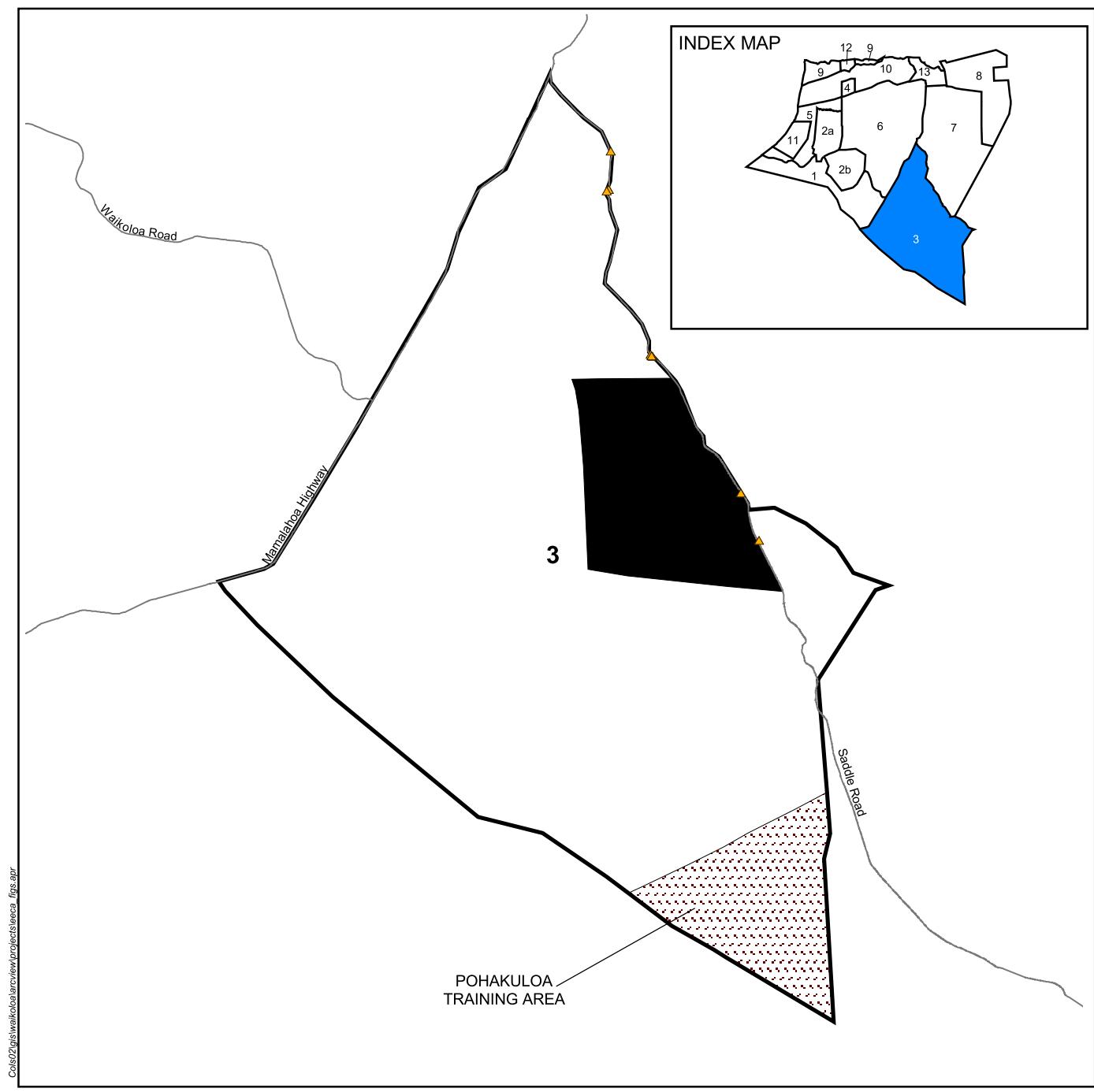
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Total OE Scrap in Sector 2b:

27

Total Small Arms in Sector 2b:

0



EXPLANATION

- ▲ OE Scrap
- 3 Sector Number
- Roads
- Active military training area not investigated during the EE/CA
- No right-of-entry area not investigated during the EE/CA



5,000 0 5,000 Feet

**Sector 3
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites**

Figure D-3

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 3 - Keamuku

Type	Grid	Description	Quantity	Depth (inches bgs)
Visual Reconnaissance				
Small Arms	--	7.62mm cartridges and links	2	surface
Small Arms	--	5.56mm cartridge	24	surface
Small Arms	--	5.56mm cartridge	24	surface
Small Arms	--	5.56mm blank cartridge	2	surface
Small Arms	--	7.62mm blank cartridge	2	surface
Small Arms	--	5.56mm cartridge	25	surface
Small Arms	--	7.62mm cartridge	25	surface
Small Arms	--	50 caliber blank cartridge	24	surface
Small Arms	--	5.56mm cartridge - expended	50	surface
Small Arms	--	50 caliber cartridge	2	surface
Small Arms	--	50 caliber blank cartridge	1	surface
Small Arms	--	7.62mm blank cartridge - expended	100	surface
Small Arms	--	5.56mm cartridge - expended	250	surface
Small Arms	--	5.56mm blank	200	surface
Small Arms	--	5.56mm cartridges and links	2	surface
Small Arms	--	5.56mm blank - belt	2	surface
Small Arms	--	50 caliber blank casing - empty	1	surface
Small Arms	--	50 caliber casing - empty	2	surface
Small Arms	--	5.56mm blank casing - empty	2	surface
Small Arms	--	50 caliber blank casing - empty	2	surface
Small Arms	--	Box of 5.56mm blanks	2	surface
Small Arms	--	M16 ball	1	surface
Small Arms	--	50 caliber casing - empty	5	surface
Small Arms	--	50 caliber casing	1	surface
Small Arms	--	M16 blanks - box of blanks	30	surface
Small Arms	--	5.56mm blank cartridges	12	surface
Small Arms	--	5.56mm blank M200 carton	1	surface
Small Arms	--	50 caliber casing - empty	1	surface
Small Arms	--	5.56mm blank	9	surface

Total UXO in Sector 3:

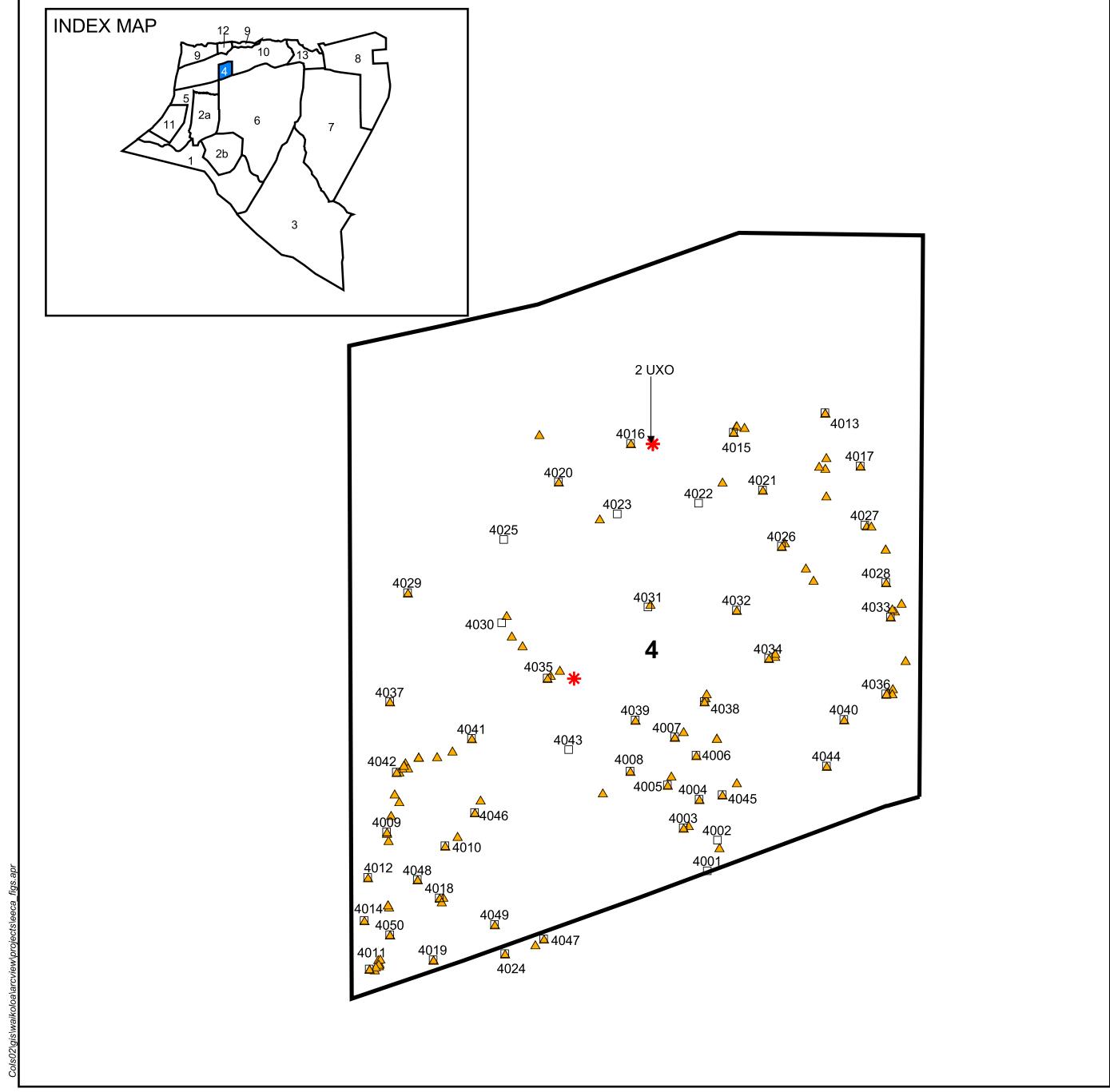
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Total OE Scrap in Sector 3:

0

Total Small Arms in Sector 3:

804



EXPLANATION

- * UXO
- ▲ OE Scrap
- Sampling Grids (100 feet x 100 feet)
- 4 Sector Number
- Roads

**Sector 4
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites**

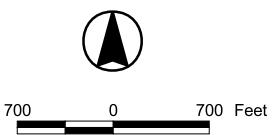


Figure D-4

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 4 - Lalamilo Wind Farm

Type	Grid	Description	Quantity	Depth (inches bgs)
Grid Survey				
UXO	--	2.36-inch rocket warhead - HEAT	1	surface
UXO	--	2.36-inch rocket motor - fuzed	1	surface
OE Scrap	--	Fuze body	1	surface
OE Scrap	--	40mm fuze	1	surface
OE Scrap	--	M48 fuze	1	surface
OE Scrap	--	Mortar fuze	1	surface
OE Scrap	--	Fuze body	1	surface
OE Scrap	--	M48 fuze	1	surface
Small Arms	--	50 caliber tracer bullet	1	surface
Small Arms	--	50 caliber - complete	1	surface
Surface Clearance of Grids and Geophysical Transects				
UXO	--	75mm projectile - HE	1	surface
OE Scrap	04003	Frag	5	surface
OE Scrap	04004	Frag	2	surface
OE Scrap	04005	Frag	4	surface
OE Scrap	04006	Frag	2	surface
OE Scrap	04007	Fuze - M54 (expended)	2	surface
OE Scrap	04007	Frag	5	surface
OE Scrap	04008	Frag	5	surface
OE Scrap	04009	105mm	12	surface
OE Scrap	04010	105mm	8	surface
OE Scrap	04011	Frag - 105mm	2	surface
OE Scrap	04011	Frag - 155mm	2	surface
OE Scrap	04011	Fuze - 577 point detonating	1	surface
OE Scrap	04012	Frag - 105mm	3	surface
OE Scrap	04013	Fuze tip	1	surface
OE Scrap	04013	Frag	1	surface
OE Scrap	04014	Frag - 105mm	3	surface
OE Scrap	04015	Frag	2	surface
OE Scrap	04016	2.36-inch rocket motor	1	surface
OE Scrap	04017	Frag	1	surface
OE Scrap	04018	Frag - 105mm	4	surface
OE Scrap	04018	M54 time ring	1	surface
OE Scrap	04019	Fuze - 557 (partial)	1	surface
OE Scrap	04019	Frag - 105mm	2	surface
OE Scrap	04020	Frag - 105mm	5	surface
OE Scrap	04021	Frag	2	surface
OE Scrap	04024	Frag - 105mm	3	surface
OE Scrap	04026	Frag	22	surface
OE Scrap	04028	Frag	4	surface
OE Scrap	04029	Frag - 105mm	10	surface
OE Scrap	04032	Frag	3	surface
OE Scrap	04033	Frag	5	surface
OE Scrap	04034	Frag	3	surface
OE Scrap	04035	Frag - 105mm	3	surface
OE Scrap	04036	Fuze - Tbar	1	surface
OE Scrap	04037	Frag - 105mm	8	surface
OE Scrap	04038	Frag	7	surface
OE Scrap	04039	Frag	6	surface
OE Scrap	04040	Frag	3	surface
OE Scrap	04041	Frag - 105mm	3	surface
OE Scrap	04042	Frag - 105mm	8	surface
OE Scrap	04044	Frag	2	surface
OE Scrap	04045	Frag	4	surface
OE Scrap	04046	Fuze - 557 (partial)	1	surface
OE Scrap	04046	Frag - 105mm	6	surface
OE Scrap	04047	Frag - 105mm	2	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 4 - Lalamilo Wind Farm

Type	Grid	Description	Quantity	Depth (inches bgs)
Surface Clearance of Grids and Geophysical Transects (continued)				
OE Scrap	04048	Frag - 105mm	4	surface
OE Scrap	04048	Fuze - M57 nose piece	2	surface
OE Scrap	04049	Frag - 105mm	3	surface
OE Scrap	04050	Frag - 105mm	3	surface
OE Scrap	04050	Fuze - 577 point detonating	1	surface
Small Arms	04011	.50 caliber - full up	1	surface
Small Arms	04021	.50 caliber cartridge case	2	surface
Anomaly Investigation and OE Sampling				
OE Scrap	04003	Frag	1	2.0
OE Scrap	04005	Frag	1	2.0
OE Scrap	04007	Frag	9	surface
OE Scrap	04011	Frag	1	1.0
OE Scrap	04011	Frag	3	2.0
OE Scrap	04011	Frag	1	3.0
OE Scrap	04011	Frag	8	4.0
OE Scrap	04011	Frag	1	surface
OE Scrap	04011	Frag	1	surface
OE Scrap	04011	Frag	1	surface
OE Scrap	04011	Frag	4	surface
OE Scrap	04011	Frag	1	surface
OE Scrap	04015	Mortar fins	1	surface
OE Scrap	04015	Mortar fins	1	surface
OE Scrap	04015	Fuze	1	2.0
OE Scrap	04018	M48 nose fuze	1	surface
OE Scrap	04026	M50 series nose fuze	1	6.0
OE Scrap	04027	Frag	1	surface
OE Scrap	04030	Frag	1	4.0
OE Scrap	04031	Frag	1	surface
OE Scrap	04033	Frag	1	surface
OE Scrap	04033	M48 nose fuze	1	surface
OE Scrap	04034	Frag	1	2.0
OE Scrap	04034	Frag	1	4.0
OE Scrap	04035	Frag	1	surface
OE Scrap	04035	Frag	1	surface
OE Scrap	04036	Frag	1	surface
OE Scrap	04036	Frag	1	surface
OE Scrap	04036	Frag	2	surface
OE Scrap	04036	Frag	1	surface
OE Scrap	04038	Fuze component	1	surface
OE Scrap	04038	Frag	1	2.0
OE Scrap	04042	Frag	1	surface
OE Scrap	04042	Frag	5	surface
OE Scrap	04042	Frag	1	surface
OE Scrap	04042	Frag	1	surface
OE Scrap	04042	Frag	1	surface
OE Scrap	04042	Frag	1	surface
OE Scrap	04042	Frag	1	surface
OE Scrap	04042	Frag	1	3.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	3.0
OE Scrap	--	Frag	1	4.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	12	surface
OE Scrap	--	Frag	10	2.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 4 - Lalamilo Wind Farm

Type	Grid	Description	Quantity	Depth (inches bgs)
Anomaly Investigation and OE Sampling (continued)				
OE Scrap	--	Frag	18	2.0
OE Scrap	--	Frag	1	3.0
OE Scrap	--	Frag	1	7.0
OE Scrap	--	Fuze component	1	surface
OE Scrap	--	Frag	1	2.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	9	surface
OE Scrap	--	M48 nose fuze (partial)	1	6.0
OE Scrap	--	Bar fuze	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	1.0
OE Scrap	--	Frag	2	2.0
OE Scrap	--	Frag	1	4.0
OE Scrap	--	Frag	1	surface

Total UXO in Sector 4:

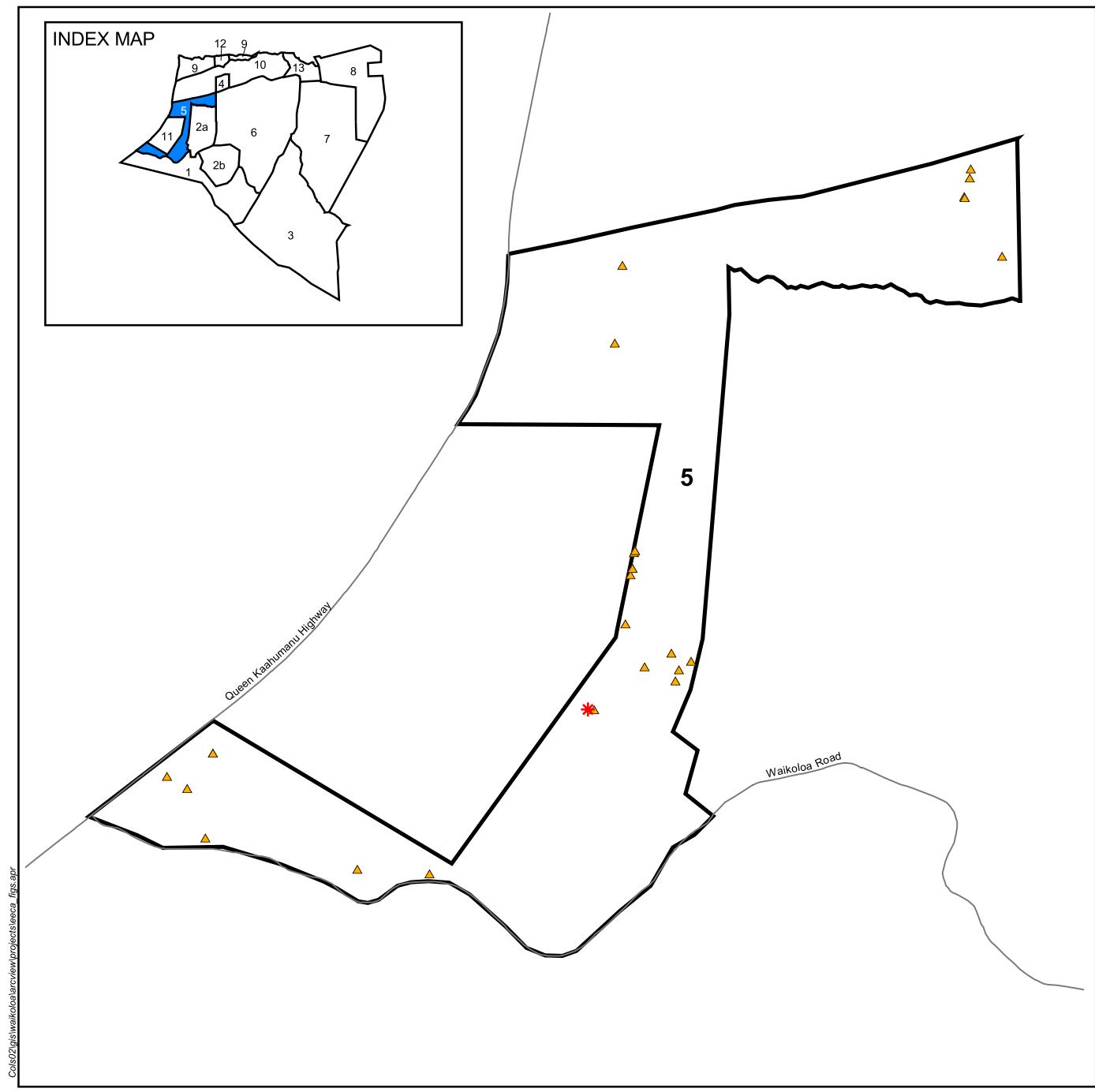
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Total OE Scrap in Sector 4:

350

Total Small Arms in Sector 4:

5



EXPLANATION

- * UXO
- ▲ OE Scrap
- 5 Sector Number
- Roads

Sector 5
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites

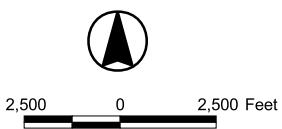


Figure D-5

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 5 - Waikoloa Road

Type	Grid	Description	Quantity	Depth (inches bgs)
Surface Clearance of Grids and Geophysical Transects				
UXO	--	155mm projectile - HE	1	surface
OE Scrap	--	OE scrap	1	surface
OE Scrap	--	OE scrap	1	surface
Anomaly Investigation and OE Sampling				
OE Scrap	--	Frag possibly from 155mm	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Fuze tip	1	surface
OE Scrap	--	Frag	15	2.0
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	2	surface
Visual Surface Searches				
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	10	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	7	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Fuze	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Fuze	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface

Total UXO in Sector 5:

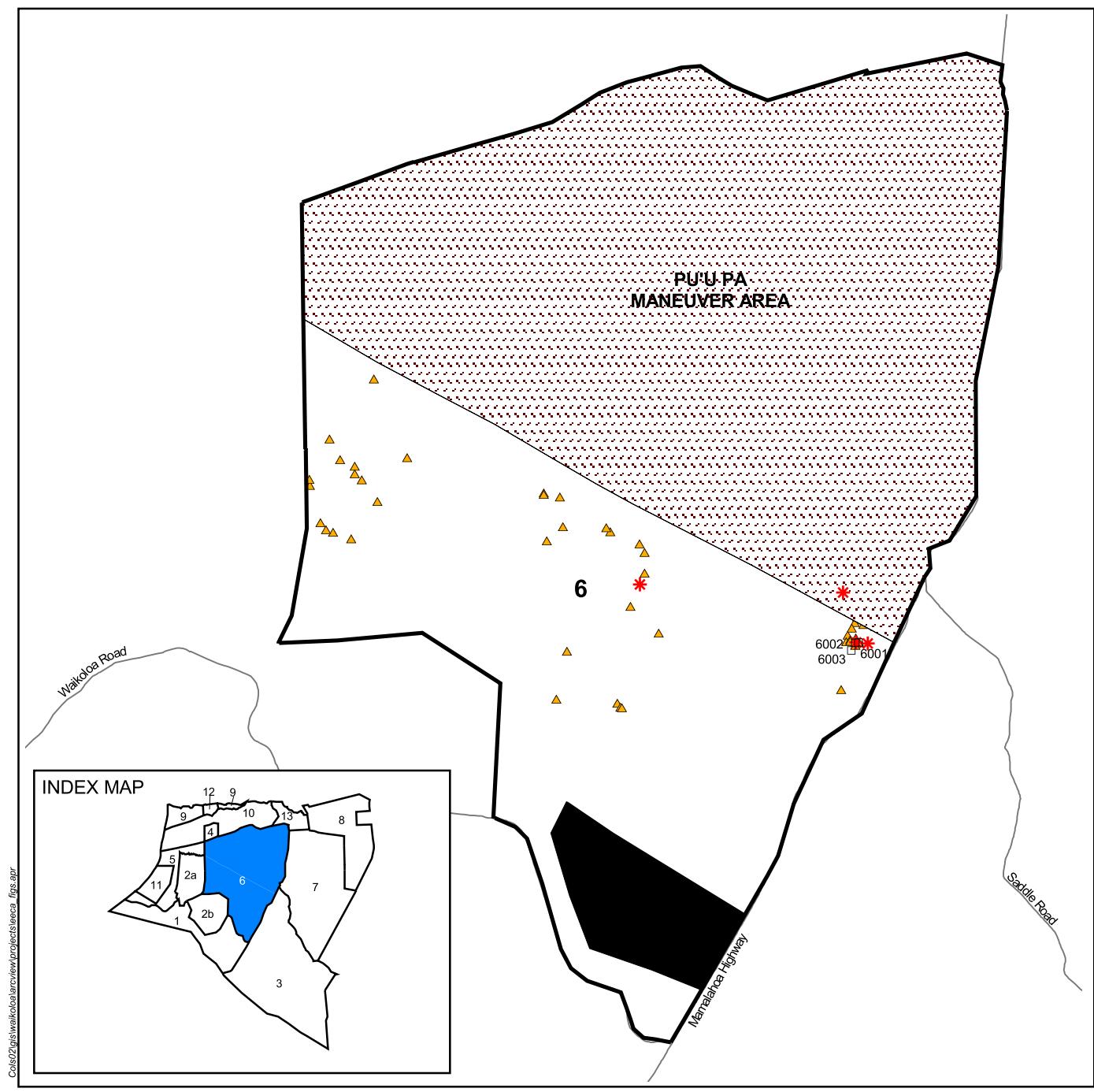
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Total OE Scrap in Sector 5:

64

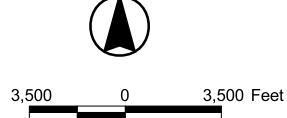
Total Small Arms in Sector 5:

0



EXPLANATION

- * UXO
- ▲ OE Scrap
- Sampling Grids (100 feet x 100 feet)
- 6 Sector Number
- Roads
- Dotted Red: Active military training area not investigated during the EE/CA
- Black: No right-of-entry area not investigated during the EE/CA



Sector 6
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites

Figure D-6

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 6 - Pu'u Pa Maneuver Area

Type	Grid	Description	Quantity	Depth (inches bgs)
Visual Reconnaissance				
UXO	--	105mm projectile - HE, unfuzed	1	surface
OE Scrap	--	OE scrap	2	surface
OE Scrap	--	OE scrap	2	surface
OE Scrap	--	Fuze	1	surface
OE Scrap	--	OE scrap	1	surface
OE Scrap	--	OE scrap	2	surface
OE Scrap	--	OE scrap - WP round	1	surface
OE Scrap	--	Rifle grenade flare	1	surface
OE Scrap	--	OE scrap	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Fuze	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	60mm illumination round casing	1	surface
OE Scrap	--	75mm	1	surface
OE Scrap	--	75mm projectile	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Fuze	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Shard from 155mm or 8-inch mortar	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Shard	1	surface
OE Scrap	--	Shard	1	surface
OE Scrap	--	155mm	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Aluminum scrap	1	surface
OE Scrap	--	2.36-inch rocket tail boom	1	surface
OE Scrap	--	OE scrap	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	75mm projectile	1	surface
OE Scrap	--	Frag	1	surface
Small Arms	--	Small arms	2	surface
Small Arms	--	M16 magazine clip - empty	1	surface
Surface Clearance of Grids and Geophysical Transects				
UXO	--	60mm mortar - illumination round	1	surface
UXO	--	81mm mortar - HE	1	surface
OE Scrap	--	4.5-inch barrage rocket	1	surface
OE Scrap	--	4.5-inch barrage rocket	1	surface
OE Scrap	06001	Frag	2	surface
Small Arms	06002	Small arms	20	surface
Small Arms	06003	Small arms (brass)	20	surface
Anomaly Investigation and OE Sampling				
UXO	--	4.5-inch barrage rocket - HE	1	6.0
OE Scrap	06001	Frag	1	3.0
OE Scrap	--	Frag	20	surface
OE Scrap	--	Frag	10	surface
OE Scrap	--	4.5-inch barrage rocket motor body	1	surface
OE Scrap	--	4.5-inch barrage rocket motor	1	surface
OE Scrap	--	4.5-inch barrage rocket motor body	1	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 6 - Pu'u Pa Maneuver Area

Type	Grid	Description	Quantity	Depth (inches bgs)
Anomaly Investigation and OE Sampling (continued)				
OE Scrap	--	81mm mortar tail boom - 12 fins	1	surface
OE Scrap	--	Frag	2	2.0
OE Scrap	--	Frag	1	2.0
Small Arms	06001	Brass from M1 garand	7	2.0
Small Arms	--	.50 caliber cartridges - empty	200	1.0

Total UXO in Sector 6:

4

Total OE Scrap in Sector 6:

84

Total Small Arms in Sector 6:

250



EXPLANATION

- ▲ OE Scrap
- 7 Sector Number
- Roads

**Sector 7
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites**



4,000 0 4,000 8,000 Feet

Figure D-7

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 7 - Holoholoku

Type	Grid	Description	Quantity	Depth (inches bgs)
Visual Reconnaissance				
OE Scrap	--	155mm howitzer propellant canister	1	surface
OE Scrap	--	80mm mortar tail	1	surface
OE Scrap	--	81mm mortar	1	surface
OE Scrap	--	Rocket warhead	1	surface
OE Scrap	--	Rocket scrap	1	surface
OE Scrap	--	Hand grenade lever	1	surface
OE Scrap	--	81mm mortar	1	surface
OE Scrap	--	OE Scrap	1	surface
OE Scrap	--	Bomb lug	1	surface
OE Scrap	--	Bomb lug	1	surface
OE Scrap	--	Bomb lug	1	surface
OE Scrap	--	OE scrap fins	1	surface
Small Arms	--	7.62mm ball	1	surface
Small Arms	--	M16 tracer round	1	surface
Small Arms	--	7.62mm casing - empty	2	surface
Small Arms	--	5.56mm blank	1	surface
Small Arms	--	7.62mm casing	1	surface
Small Arms	--	M16 bullet	1	surface
Small Arms	--	7.62mm ball	1	surface
Small Arms	--	M1 carbine casing	1	surface
Small Arms	--	7.62mm casing - empty	2	surface
Anomaly Investigation and OE Sampling				
OE Scrap	--	M1 clip	1	surface
OE Scrap	--	81mm fin assembly	1	surface
Small Arms	--	.30 carbine - full-up bullet	1	4.0
Small Arms	--	M1 garand clip	1	surface

Total UXO in Sector 7:

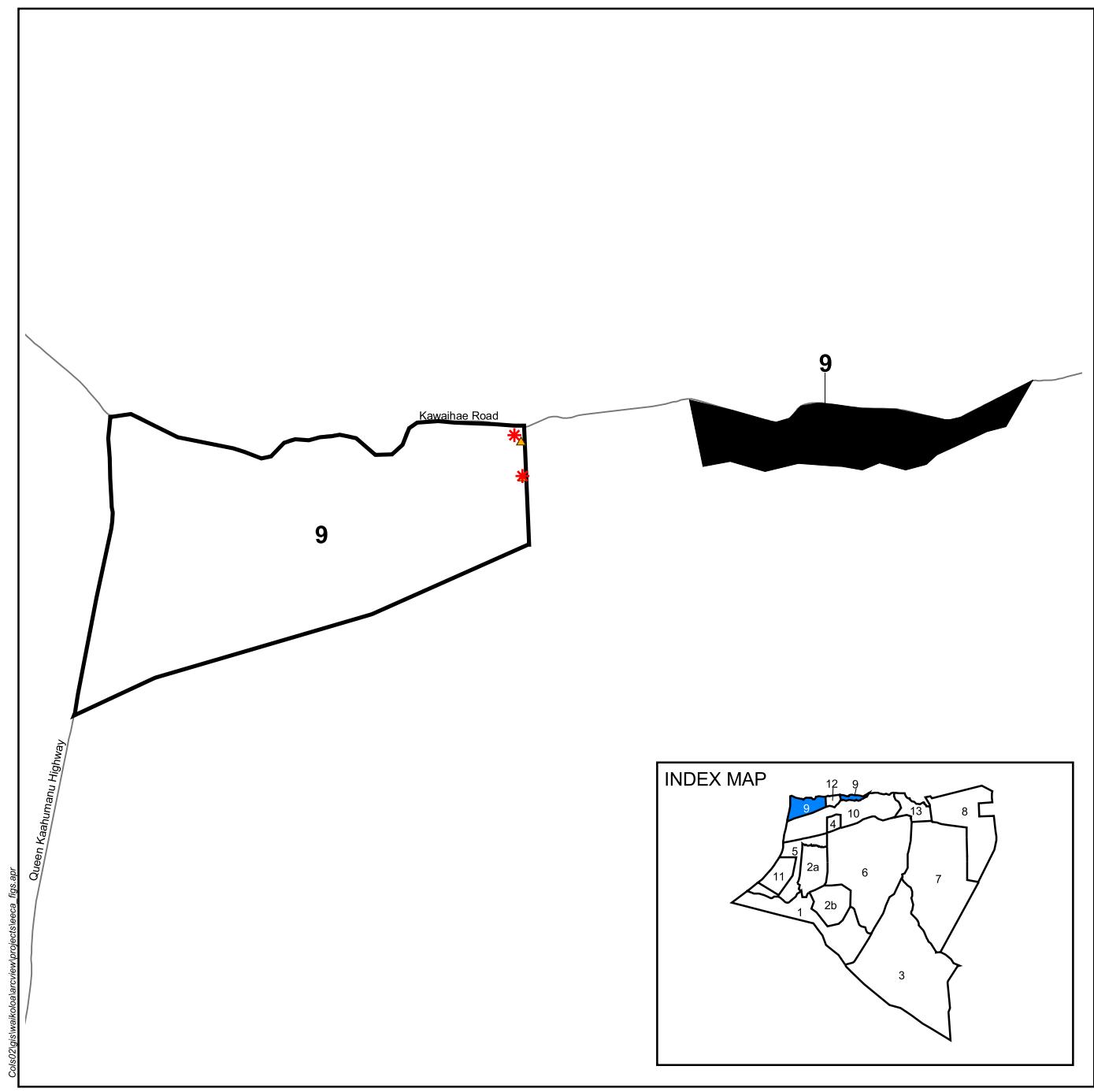
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Total OE Scrap in Sector 7:

14

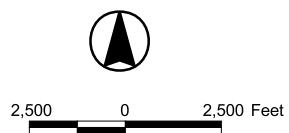
Total Small Arms in Sector 7:

13



EXPLANATION

- * UXO
- ▲ OE Scrap
- 9 Sector Number
- Roads
- █████ No right-of-entry area not investigated during the EE/CA



Sector 9
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites

Figure D-8

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 9 - Kawaihae Road

Type	Grid	Description	Quantity	Depth (inches bgs)
Surface Clearance of Grids and Geophysical Transects				
UXO	--	81mm mortar - white phosphorus	1	surface
UXO	--	Mk2 hand grenade - HE	1	surface

Total UXO in Sector 9:

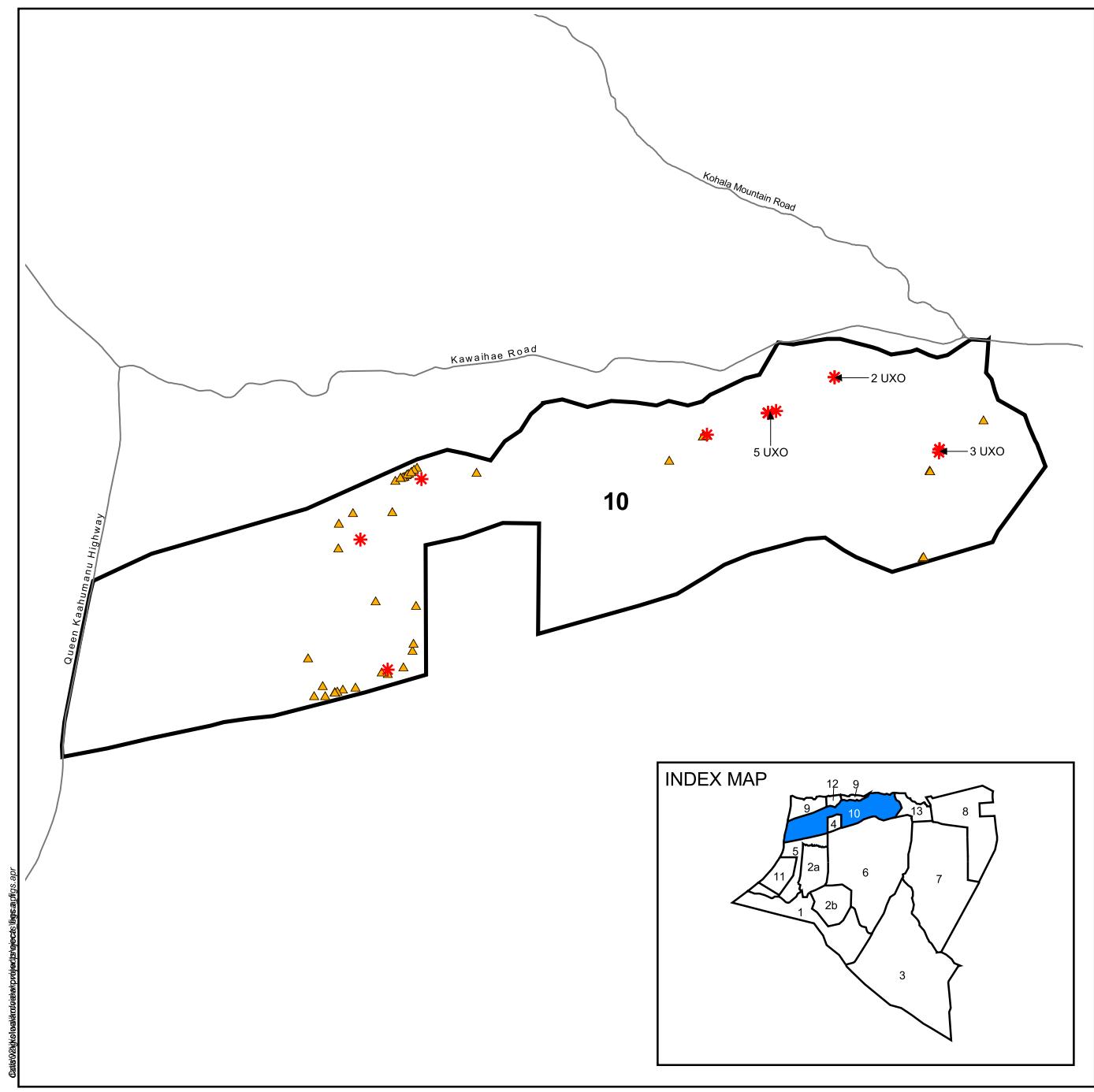
2

Total OE Scrap in Sector 9:

0

Total Small Arms in Sector 9:

0



EXPLANATION

- * UXO
- ▲ OE Scrap
- 10 Sector Number
- Roads

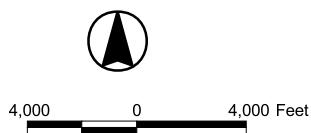


Figure D-9

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 10 - Lalamilo State Land

Type	Grid	Description	Quantity	Depth (inches bgs)
Surface Clearance of Grids and Geophysical Transects				
UXO	--	75mm projectile - HE, unfuzed	1	surface
UXO	--	60mm mortar - HE	1	surface
UXO	--	Mk2 grenade fuze	1	surface
UXO	--	M9 rifle grenade - HEAT	1	surface
UXO	--	M9 rifle grenade fuze	1	surface
UXO	--	M9 rifle grenade fuze	1	surface
UXO	--	155mm projectile - HE	1	surface
UXO	--	2.36-inch rocket with warhead - HEAT	1	surface
UXO	--	81mm mortar - white phosphorus	1	surface
UXO	--	2.36-inch rocket with warhead - HEAT	1	surface
UXO	--	60mm mortar - HE (M49A2)	1	surface
UXO	--	60mm mortar - HE (M49A2)	1	surface
UXO	--	60mm mortar fuze	1	surface
OE Scrap	--	OE scrap	1	surface
OE Scrap	--	81mm mortar	1	surface
OE Scrap	--	Series 50 fuze - Tbar	1	surface
OE Scrap	--	4.5-inch barrage rocket parts	50	surface
OE Scrap	--	81mm tail boom - white phosphorus	1	surface
OE Scrap	--	60mm tail boom - illumination round	1	surface
OE Scrap	--	Frag - 81mm white phosphorus casing	1	surface
OE Scrap	--	37mm - APT	1	surface
OE Scrap	--	Frag, spent fuzes, 37mm TP round	3	surface
OE Scrap	--	2.36-inch rocket motor	1	surface
OE Scrap	--	Series 50 fuze - Tbar	1	surface
Anomaly Investigation and OE Sampling				
UXO	--	2.36-inch rocket with warhead - HEAT	1	surface
OE Scrap	--	81mm mortar tail boom	1	3.0
OE Scrap	--	Fuze and frag	13	20.0
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	1	2.0
OE Scrap	--	Frag	8	1.0
OE Scrap	--	Frag	3	6.0
OE Scrap	--	Frag	8	12.0
OE Scrap	--	Frag	9	2.0
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	5	6.0
OE Scrap	--	Frag	4	3.0
OE Scrap	--	Frag	1	3.0
OE Scrap	--	Frag	5	3.0
OE Scrap	--	Frag	15	surface
OE Scrap	--	Illumination round casing	1	2.0
OE Scrap	--	4.5-inch barrage rocket motor	1	surface
OE Scrap	--	4.5-inch barrage rocket motor	1	4.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag - 4.5-inch barrage rocket motor	1	surface
OE Scrap	--	Fuze piece - mech time	1	surface
OE Scrap	--	4.5-inch barrage rocket motor	1	surface
OE Scrap	--	4.5-inch barrage rocket motor	1	2.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag - 105mm	10	4.0
OE Scrap	--	Frag	1	8.0
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	4	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 10 - Lalamilo State Land

Type	Grid	Description	Quantity	Depth (inches bgs)
Anomaly Investigation and OE Sampling (continued)				
OE Scrap	--	Frag	6	6.0
OE Scrap	--	155mm lugs	5	12.0
OE Scrap	--	Mortar booms and fins	5	12.0
OE Scrap	--	60mm illumination canisters (empty)	5	12.0
OE Scrap	--	M157 nose fuze (spent)	1	12.0

Total UXO in Sector 10:

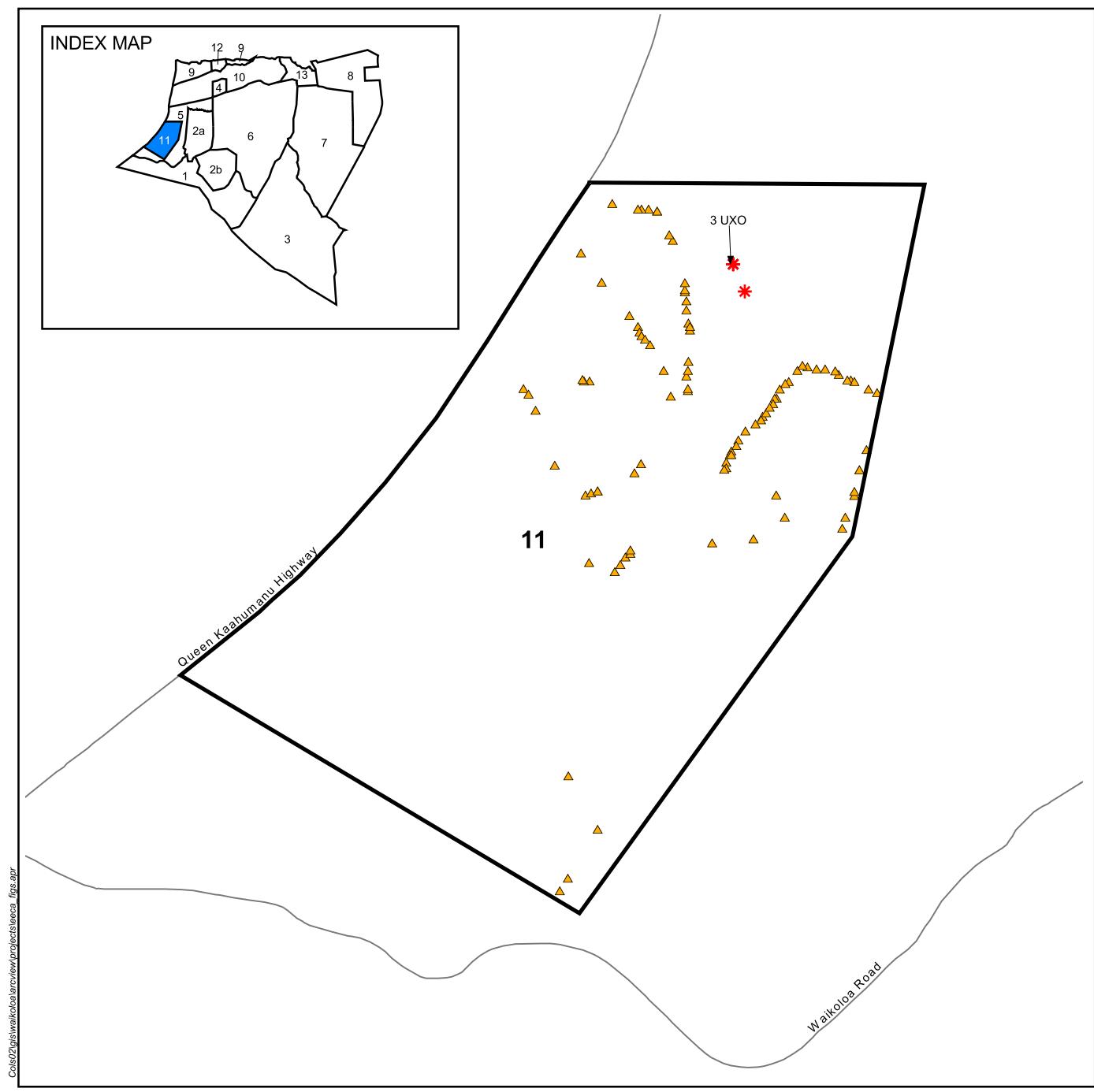
14

Total OE Scrap in Sector 10:

192

Total Small Arms in Sector 10:

0



EXPLANATION

- * UXO
- ▲ OE Scrap
- 11 Sector Number
- Roads

**Sector 11
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites**

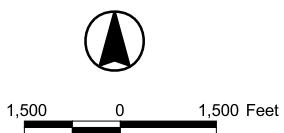


Figure D-10

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 11 - Puako Parcel

Type	Grid	Description	Quantity	Depth (inches bgs)
Surface Clearance of Grids and Geophysical Transects				
UXO	--	75mm projectile - HE	1	surface
UXO	--	M54 PTTF fuze	1	surface
UXO	--	75mm projectile - HE	1	surface
UXO	--	75mm projectile - HE	1	surface
Visual Surface Searches				
OE Scrap	--	Frag	1	surface
OE Scrap	--	Fuze M-50 series	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	5	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Fuze M-50 series	1	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	10	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	5	surface
OE Scrap	--	Frag	9	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	5	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	5	surface
OE Scrap	--	Frag	5	surface
OE Scrap	--	Frag	5	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 11 - Puako Parcel

Type	Grid	Description	Quantity	Depth (inches bgs)
Visual Surface Searches (continued)				
OE Scrap	--	Frag	5	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	5-inch casing	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	7	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	5	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	4	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	10	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Fuze M-50 series	1	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	7	surface
OE Scrap	--	Frag	2	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	3	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	Frag	1	surface

Total UXO in Sector 11:

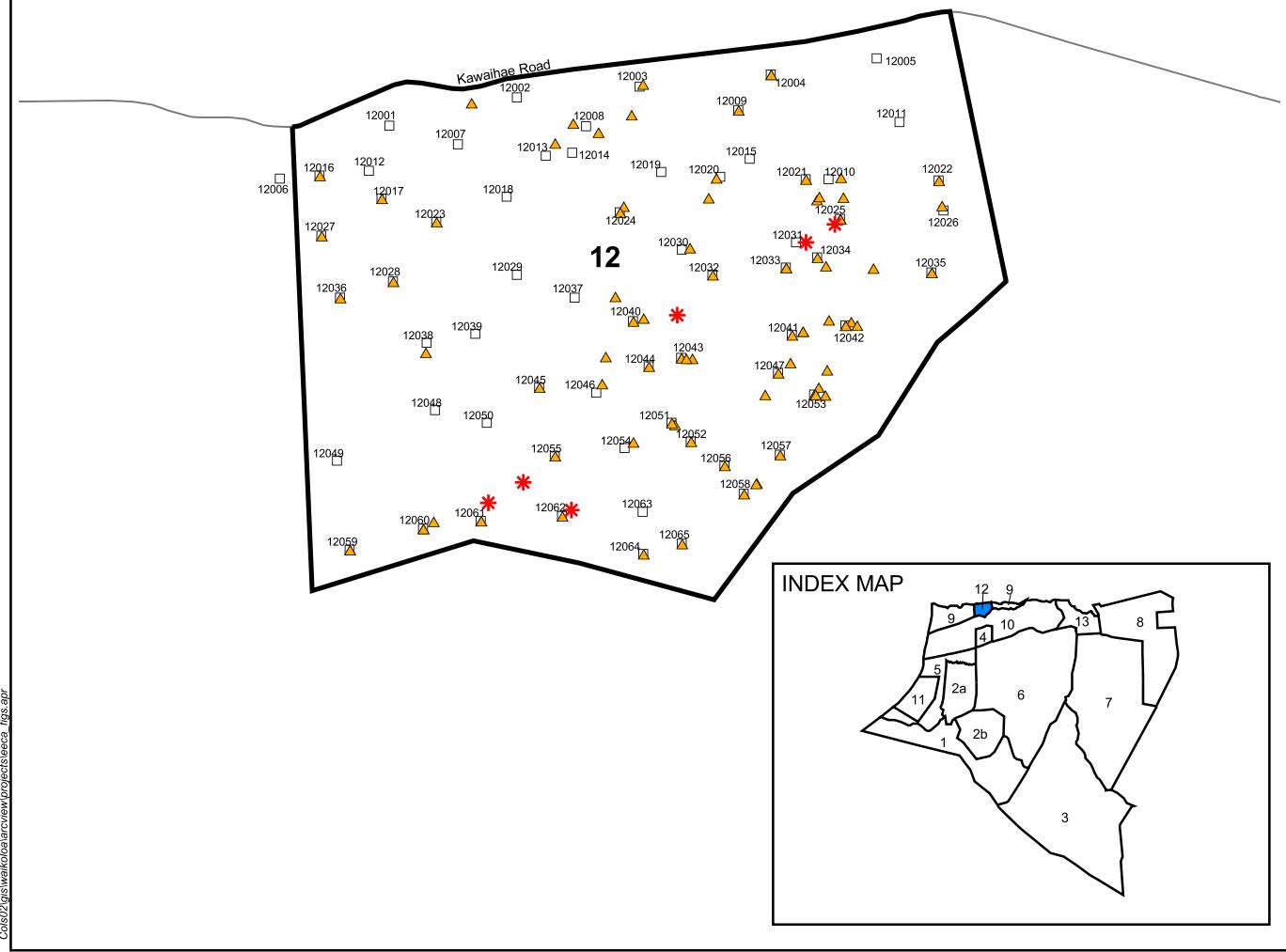
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Total OE Scrap in Sector 11:

258

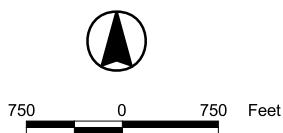
Total Small Arms in Sector 11:

0



EXPLANATION

- * UXO
- ▲ OE Scrap
- Sampling Grids (100 feet x 100 feet)
- 12 Sector Number
- Roads



**Sector 12
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites**

Figure D-11

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 12 - O'uli Parcel

Type	Grid	Description	Quantity	Depth (inches bgs)
Grid Survey				
OE Scrap	--	155mm lifting lug	1	surface
OE Scrap	--	Mortar	1	surface
OE Scrap	--	Burster tube	1	surface
OE Scrap	--	155mm fuze	1	surface
OE Scrap	--	Expended grenade body	1	surface
OE Scrap	--	Rifle grenade	1	surface
OE Scrap	--	Warhead body	1	surface
OE Scrap	--	Rifle grenade tail	1	surface
OE Scrap	--	Rotating band	1	surface
OE Scrap	--	Frag - shrapnel	1	surface
OE Scrap	--	Box of frag sleeves	1	surface
OE Scrap	--	Rocket section	1	surface
OE Scrap	--	Grenade frag	1	surface
OE Scrap	--	Grenade frag	1	surface
OE Scrap	--	Potential flare part	1	surface
OE Scrap	--	Mortar tail boom	1	surface
OE Scrap	--	Expended mortar fuze	1	surface
OE Scrap	--	Frag	1	surface
OE Scrap	--	60mm mortar tail boom	1	surface
OE Scrap	--	Grenade frag	1	surface
OE Scrap	--	20mm brass shells	2	surface
Small Arms	--	50 caliber slug	1	surface
Small Arms	--	50 caliber brass	1	surface
Small Arms	--	5.56 practice rounds - unfired	1	surface
Small Arms	--	SAW 5.56 with links	1	surface
Small Arms	--	50 caliber slug	1	surface
Small Arms	--	Cluster of 5.56mm brass	1	surface
Surface Clearance of Grids and Geophysical Transects				
UXO	12031	60mm mortar - HE, fuzed	1	surface
UXO	12032	37mm projectile - HE, unfuzed	1	surface
UXO	--	60mm mortar - HE	1	surface
UXO	--	60mm mortar - HE, fuzed	1	surface
UXO	--	Mk2 hand grenade - HE	1	surface
OE Scrap	12004	Grenade fuze	1	surface
OE Scrap	12016	Frag - Mk2 grenade	2	surface
OE Scrap	12017	Frag - Mk2 grenade	1	surface
OE Scrap	12021	20mm case	1	surface
OE Scrap	12025	20mm case	1	surface
OE Scrap	12027	Grenade fuze - Mk2	2	surface
OE Scrap	12033	Frag - 81mm mortar	3	surface
OE Scrap	12034	Frag	2	surface
OE Scrap	12035	Illumination disk	1	surface
OE Scrap	12040	Frag - 81mm mortar	8	surface
OE Scrap	12041	Frag	10	surface
OE Scrap	12042	Illumination disk	1	surface
OE Scrap	12047	Frag	2	surface
OE Scrap	12051	Frag	5	surface
OE Scrap	12052	Frag	1	surface
OE Scrap	12053	Fuze part	2	surface
OE Scrap	12055	Frag	4	surface
OE Scrap	12060	60mm mortar fin	1	surface
OE Scrap	12061	81mm mortar tail boom	1	surface
OE Scrap	12065	Frag - 81mm mortar	2	surface
OE Scrap	12059	Frag	15	surface
OE Scrap	12060	Frag	2	surface
OE Scrap	12061	Frag - fuze threads	1	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 12 - O'uli Parcel

Type	Grid	Description	Quantity	Depth (inches bgs)
Surface Clearance of Grids and Geophysical Transects (continued)				
OE Scrap	12062	Frag	3	surface
OE Scrap	12064	Frag	1	surface
OE Scrap	12004	Frag - Mk2 grenade	2	surface
OE Scrap	12006	Frag - Mk2 grenade	5	surface
OE Scrap	12009	Frag - Mk2 grenade	2	surface
OE Scrap	12022	81mm mortar tail boom	1	surface
OE Scrap	12023	Frag - 60mm mortar	1	surface
OE Scrap	12024	Frag - 105mm	3	surface
OE Scrap	12025	60mm mortar boom	1	surface
OE Scrap	12025	Frag - 105mm	1	surface
OE Scrap	12025	Frag - 105mm rotating band	1	surface
OE Scrap	12028	Frag - Mk2 grenade	1	surface
OE Scrap	12032	Frag - 105mm	3	surface
OE Scrap	12033	Frag - 60mm mortar	3	surface
OE Scrap	12035	Frag	3	surface
OE Scrap	12036	Frag - Mk2 grenade	2	surface
OE Scrap	12042	20mm projectile	1	surface
OE Scrap	12042	Frag	9	surface
OE Scrap	12043	Illumination disk	1	surface
OE Scrap	12043	Frag	1	surface
OE Scrap	12044	Frag	1	surface
OE Scrap	12045	Frag	1	surface
OE Scrap	12053	60mm mortar - illumination round	2	surface
OE Scrap	12053	Frag - howitzer	3	surface
OE Scrap	12056	Frag	3	surface
OE Scrap	12057	Frag	5	surface
OE Scrap	12058	Frag - possible 75mm	6	surface
OE Scrap	12059	Fuze - grenade (expended)	1	surface
OE Scrap	--	Fuze - grenade	1	surface
OE Scrap	--	Fuze - grenade	1	surface
Small Arms	12011	.50 caliber cartridge case	1	surface
Small Arms	12020	Small arms	4	surface
Small Arms	12022	.50 caliber cartridge case	1	surface
Small Arms	12024	7.62mm bullet	4	surface
Small Arms	12028	7.62mm bullet	4	surface
Small Arms	12036	7.62mm bullet case	9	surface
Small Arms	12043	5.56mm blank - brass	100	surface
Small Arms	12044	.50 caliber case	1	surface
Small Arms	12056	.50 caliber armor piercing round	1	surface
Small Arms	12058	Brass and links	50	surface
Small Arms	12059	.50 caliber armor piercing round	1	surface
Small Arms	12004	Small arms	3	surface
Small Arms	12060	.50 caliber projectile	1	surface
Small Arms	12009	Small arms	12	surface
Small Arms	12021	.50 caliber	3	surface
Small Arms	12021	.30 caliber	6	surface
Small Arms	12022	.50 caliber link	1	surface
Small Arms	12025	.30 caliber carbine	1	surface
Small Arms	12031	Small arms	6	surface
Small Arms	12032	Small arms	32	surface
Small Arms	12035	.50 caliber cartridge case	1	surface
Small Arms	12039	7.62mm case - empty	7	surface
Small Arms	12054	.50 caliber and .30 caliber - brass	2	surface
Anomaly Investigation and OE Sampling				
UXO	12062	81mm mortar - HE	1	2.0
OE Scrap	12024	Frag	1	surface

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 12 - O'uli Parcel

Type	Grid	Description	Quantity	Depth (inches bgs)
Anomaly Investigation and OE Sampling (continued)				
OE Scrap	12030	Frag	2	surface
OE Scrap	12040	Frag	1	surface
OE Scrap	12041	Frag	1	surface
OE Scrap	12041	Mortar boom	1	surface
OE Scrap	12042	Frag	1	surface
OE Scrap	12042	Frag	1	surface
OE Scrap	12043	Frag	2	surface
OE Scrap	12046	Frag	1	surface
OE Scrap	12047	Frag	1	surface
OE Scrap	12051	Frag	1	surface
OE Scrap	12053	Frag	1	surface
OE Scrap	12054	Frag	1	surface
OE Scrap	12058	Frag	1	1.0
OE Scrap	12058	Frag (75mm)	1	3.0
OE Scrap	12060	Frag	1	surface
OE Scrap	--	Frag	6	surface
Small Arms	12040	.30 caliber bullet	1	surface
Small Arms	12041	.50 caliber bullet - flattened	1	surface
Small Arms	12044	.50 caliber bullet	1	surface
Small Arms	12058	.50 caliber "FMJ" - jacket	1	surface
Small Arms	12064	.50 caliber bullet	1	surface
Small Arms	--	.30 caliber bullet - no case	1	surface

Total UXO in Sector 12:

6

Total OE Scrap in Sector 12:

185

Total Small Arms in Sector 12:

263



EXPLANATION

- * UXO
- ▲ OE Scrap
- 13 Sector Number
- Roads

**Sector 13
EE/CA Field
Investigation Results
Former Waikoloa
Maneuver Area and
Nansay Sites**

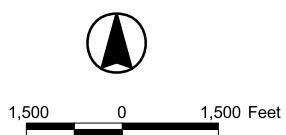


Figure D-12

Former Waikoloa Maneuver Area and Nansay Sites
EE/CA Field Investigation Results
Sector 13 - West Waimea/Kamuela Airport

Type	Grid	Description	Quantity	Depth (inches bgs)
Surface Clearance of Grids and Geophysical Transects				
UXO	--	Mk2 hand grenade - HE	1	surface
Anomaly Investigation and OE Sampling				
OE Scrap	--	Ring handling plug for artillery round	1	4.0
Small Arms	--	.30 caliber carbine	1	6.0
Small Arms	--	.30 caliber clip	1	surface

Total UXO in Sector 13:

1

Total OE Scrap in Sector 13:

1

Total Small Arms in Sector 13:

2