

VKNH - Kahaha Beach

Date 1st used	KANAHA BEACH VKNH		Survey Dates								
			9/2/95	2/21/96	8/11/96	1/8/97	6/29/97	1/7/98	7/9/98	1/12/99	7/1/99
	VKNH1-1										
9/2/95	RP1**	Landward side of stump	BRP1	BRP1	BRP1	BRP1	BRP1	BRP1	BRP1	BRP1	BRP1
9/2/95	RP2	PK nail in center of same stump as RP5	FRP1	FRP1	FRP1	FRP1	FRP1	FRP1	FRP1	FRP1	FRP1
	Start of Line		6' mauka of BRP	-	back dune	at BRP	DC	at FRP	near BRP	in bush	back dune
	Bearing		333	340	-	335	-	-	349	350	350
	VKNH1-2										
9/2/95	RP3	PK nail in stump	BRP2	BRP2	BRP2	BRP2	BRP2	BRP2	BRP2	BRP2	BRP2
9/2/95	RP4**,**	PK nail in stump	FRP2	FRP2	FRP2	FRP2	FRP2	FRP2	FRP2	FRP2	FRP2
	Start of Line		5' makai of BRP	-	back of dune	-	base tree	at FRP	on BRP	-	at BRP
	Bearing		332	335	-	334	-	-	347	344	-
	VKNH1-3										
9/2/95	RP5**	PK nail in stump	BRP3	BRP3	BRP3	BRP3	BRP3	BRP3	BRP3	BRP3	BRP3
9/2/95	RP6	PK nail in stump	FRP3	FRP3	FRP3	FRP3	FRP3	FRP3	FRP3	FRP3	FRP3
	Start of Line		Back of dune	-	Tree line	BC	at FRP	at BRP	at BRP	edge of path	-
	Bearing		335	335	-	335	-	-	349	348	-

location: From airport rental car pick-up area, follow signs to Kanaha Beach Park (don't leave airport). Left at "T" intersection (Amala?). Right at driveway before cinderblock cabins.
 Pull up to dunes; park

LINE-UP Try one setup for all three lines; if not, break it up into two.

Horizontal Reference: Top seaward corner of house roof visible to east on beach

RP# 1 Landward side of stump 20m east of Hau and Ironwood tree, landward and east of 2nd groin.

RP# 2 Center of same stump as RP5, PK's separated by about 3"

RP# 3 PK at 4ft on cut face pointing landward of standing-up stump, 15m landward of RP4

RP# 4 PK at 1ft on flat-lying stump on vegetated dune crest

RP# 5 PK out 6" on flat-lying stump 3' south of RP2

RP# 6 PK at 1' on 1' stump, 6" west of 4' stump and 2ft SE of thick 4' stump. Both 30m west of large clump of ironwoods trees.

GPS1 KNH2 (07-97) = RP4

GPS2 KNH3 (07-97) = RP6

NOTES:

7/8/97 GPS Survey

GPS Positions	Longitude	Latitude	Elevation (meters above local tidal datum)
KNH2	-156.443192	20.899149	3.441
KNH3	-156.442032	20.899488	2.828

*Primary GPS for elevation control; GPS1, KNH2, RP4 (7/97) = 3.441

LINE1-1 **Primary reference point; RP1/BRP1 = 3.787

LINE1-2 **Primary reference point; RP4/FRP2 = 3.441

LINE 1-3 **Primary reference point; RP5/BRP3 = 2.847