

OKLA 1 - Kailua Bay, Boat Ramp

Date first used	KAILUA BAY, BOAT RAMP OKLA 1-1		Survey Dates												
			8/5/1994	2/1/1995	9/11/1995	3/6/1996	8/24/1996	3/9/1997	9/28/1997	1/22/1998	7/30/98	2/1/1999	6/25/1999		
8/5/1994	RP#1	nail on palm offline	RP1	RP1											
8/5/1994	RP#2	divot in concrete platform	RP2	RP2	RP2	GPS1	SRP	SRP	SRP	SRP					
8/5/1994	RP#3	divot on wall	RP3	RP3	RP3	SRP									
8/5/1994	RP#4	nail on pavillion	RP4												
8/5/1994	RP#5	nail in parking lot													
3/1/1996	RP#6	nail in parking lot by light				GPS2									
9/11/1995	RP#7 **	pk nail on S side of landward palm			BRP	BRP	BRP	BRP	BRP	BRP	BRP	BRP	BRP	BRP	BRP
9/11/1995	RP#8	pk nail on N side of seaward palm			FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP
	Start of Line		BASE.TREE	BASE.TREE	MAUKA.DUNE	MAUKA.DUNE	at.fence	AT.FENCE	at.fence	at.fence	at.fence	at.fence	at.fence	at.fence	at.fence
	Line Number		A	A	B	B	B	B	B	B	B	B	B	B	B
	bearing		N10E		N25E		N25E		N23E						

* = new PK nail or other marker

LOCATION:	South end of Kailua Bay at the northern end of the boat ramp parking lot N of bath house in dunes
LINE UP:	Defined by 2 palms online on N side of group of palms on dune north of bath house
Hor. Ref.	N-makai corner of restroom roof
RP#1	Nail at 2m on S side of palm, mauka palm of 4
RP#2	Small divot in concrete, northwest seaward corner of restroom, ~2" diagonally inward from corner
RP#3	divot in low (1ft) red cinderblock & brick wall bordering landward side of parking lot, 0.225m south of end of wall. Wall stops for gate in green chain fence
RP#4	Nail in SW corner of pavillion behind cyclone fence. No longer used.
RP#5	nail in north end of parking lot between bath house and low wall, 11m SE of restrooms in middle of lot
RP#6	PK in cement parking lot, 1.21m seaward of light pole, directly under light, on faded white parking space line
RP#7	Nail on S side of landward-most palm, 1m up from ground
RP#8	Nail on N side of seaward-most palm, ~.75 to 1m up
GPS1	KL11: RP2
GPS2	KL12: RP6
NOTES:	THIS LINE WAS MOVED IN 95-09; first two dates should not be compared with the other surveys taken
8/5/94	Also a boat survey
3/1/96	GPS Survey: KL11, KL12

* This site has not been corrected to the local tidal datum

**Primary reference point; RP7/BRP = -27.617

Preliminary GPS positions (not adjusted)

	Longitude	Latitude	Elevation (relative to ellipsoid?)
KL11	-157.723114	21.395601	-29.89
KL12	-157.722961	21.395363	-30.109

*Primary GPS for elevation control; RP2/GPS1 = -29.89