

OPOU - Punaluu Beach

Date first used	Punaluu Beach OPOU 1-1		Survey Dates										
			8/6/1994	1/18/1995	9/12/1995	3/9/1996	8/23/1996	2/23/1997	8/6/1997	12/29/1997	7/21/1998	12/17/1998	7/27/1999
8/6/1994	<b>RP#1</b>	Shower main (top, center)	RP1	RP1	FRP	FRP	FRP	FRP	FRP	FRP	-	RP1	FRP?
8/6/1994	<b>RP#2 * **</b>	Bath/shower walkway	RP2	GPS2	*RP2	RP2	SRP	SRP	SRP	SRP	-	-	-
8/6/1994	<b>RP#3 ***</b>	Palm 15' from road (2 palms form "U")	RP3	RP3	BRP	MRP	BRP	BRP	BRP	BRP	BRP	RP3	BRP?
8/6/1994	<b>RP#4</b>	Palm by road (offline)	RP4	-	-	-	-	-	-	-	-	RP4	RP4
8/6/1994	<b>RP#5</b>	Telephone pole	RP5	-	-	-	-	-	-	-	-	-	-
8/6/1994	<b>RP#6</b>	Water meter	RP6	RP6	-	-	-	-	-	-	-	-	-
8/6/1994	<b>RP#7</b>	Top of corner fence post (mauka road)	RP7	RP7	RP7	BRP	-	-	-	-	-	-	-
1/18/1995	<b>RP#8</b>	Bath/road walkway (GPS 1)	-	GPS1	RP8	RP8	-	-	-	-	-	-	-
	<b>Start of Line</b>		base.RP7	swd.rd	Indwd.rd	swd.rd	swd.wht.ln	swd.rd	Indwd.rd	swd.rd	swd.rd	AT.BRP	swd.edge.showe
	<b>Bearing</b>		16°	-	16°	-	21°	18°	30°	-	34°		
* = new PK nail or other marker													
Location:	Punaluu Beach Park just east of bath house, and across Hwy. and west of #53-280 & #53-270.												
Line-up:	<b>LINE UP:</b> Defined by shower main and base of west palm of 2 forming "U".												
RP#1	Top, center of shower main on east side of bath house.												
RP#2	Nail in intersecting seam of concrete path from shower and bath house platform. (Nail replaced 9/95; lost 7/98-crack regouted)												
RP#3	Seaward-facing nail in palm approx. 35 cm above base. West palm of 2 forming "U".												
RP#4	Nail 35cm above sand flush with trunk on palm leaning toward road in group of 4 palms approx. 10m east of line near Hwy.												
RP#5	Nail at base of telephone pole on seaward side of Hwy. across from mailboxes #53-270, 53-270A, 53-280 & 53-280A.												
RP#6	West seaward cement corner of water meter on landward side of road, west of mailboxes and in front of east end of cyclone fence.												
RP#7	Top of cyclone fence post. Cyclone fence parallel to Hwy, behind water meter, east of bath house. West corner of fence post.												
RP#8	PK at crack of bath house path and parking along road.												
GPS1	PUU1 = RP8; Location questionable; original data sheets are missing												
GPS2	PUU2 = RP2; Location questionable; original data sheets are missing												
NOTES:													
1/18/95	GPS Survey. No GPS data sheets; GPS locations undefined; PUU2 makai of PUU1												
7/27/99	No RP number identified for 7/99 survey												
Preliminary GPS Positions (no final adjustment)													
			Longitude	Latitude		Elevation (meters above local tidal datum)							
	PUU1		-157.88176	21.576704		1.737							
	PUU2		-157.881607	21.576752		2.126							
* Primary GPS for elevation control; RP2/GPS2 = 2.126													
** Primary vertical reference point 8/94 - 12/97 RP2/GPS2 = 2.126													
***Primary vertical reference point 12/97 to 7/99: RP3/BRP = 2.192 (from 7/97)													