## FIELD EQUIPMENT VERIFICATION (PRE/POST A WEEKLY SAMPLING):



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
96	M. Bewon	11/1/21	9:35	M. Becson	11/4/21	11:00

QA/QC Check	Inst#	Probe	Last Cal Date		PR Verificat			ST: ion Value	Acceptable Range	Comments/ Notes	QA?
<b>Femperature</b>	NIST	n/a	NIST Exp. Date	Std Val	<u>NIST</u> 25.7 <sub>°C</sub>	NIST 25.5 °C	<u>NIST</u> 25.5 <sub>℃</sub>	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	4	3	8 17 23		25.5		25.2				
	4	4	8/17/23		The State of	25.4		I			
Salinity			3 months	Std Val	Tap water	Salin Std <u>4/27/21</u> date <u>33.5</u> ppt	Tap water	Salin Std 6 27/20ate 33.5 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	10/8/21		0.41	34.9	0.43	34.8		Is Cathy's standard really 33.5?	
	1	4	10/8/21		0.42	35.2	_	-		Is sm having the same readings?	
Dissolved Oxygen			1 <u>I year</u>	-Std Val	10	0%	10	0%	± 5 %		
	1	4	8/12/21		101.	0%	99.	7%			
	1	1	9/28/20		98.7	r°lo	_	_		Need to find battery piece to replace.	
рН			3 weeks	Std Val	pH 7.00	pH 10.00	pH 7.00	pH 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle	
	1	6	11/1/21	7 90	7.04	9.99	7.04	10.07		got 10.07 3 times dnew blue bottle (10.01) solution	
	1	5	11/1/21		7.04	9.97	-		W.E	a new bus bottle (10.01) solution	W
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	10/8/21		0.06	5.38	0.06	5.47		* ww: 5.41 NTV	
1 -	NBBF	n/a	10/8/21	3 1121	0.06	5.55	_			\$ LOW: 5.56 NTV	

QA:

\* Are pre- and post within one week?
\* Delay times are ok?
\* Other equipment issues?

lab: KAL

Team	R2RS	Samplers	Bewon, M.	Changed salinity values to correct for error	Meters a	and Prol	bes ID		
Session	96	(Last Name, 1st Initial)	Sampson, N.	in salinity probe calibration. 1.5 ppt was	HQ40d:	1		2100Q:	1
Date	11/2/2021			subtracted from each measured value. QA	pH: (0	)	DO:	4	Salinity: 3

Location Name	Freshwater	Time		Salinity	Dissolved	l Oxygen	- U		Touchidian		Peop	le (within 1	00 ft)
Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
Napili Bay RNS211102	N	8:10	26.2	36.835.	36.65	101.5	8.22	1.33	1.54	1.40	1	3	ø
Pohaku RPO211102	$\sim$	8:44	26.0	34.83.	36.72	101.1	8.20	7.44	7.64	7.99	1	6	Ø
Kaanapali Sh RKS211102	N	9:08	26.8	37.035.	56.64	102.3	8.21	3.25	3.98	3.22	2	9	Ø
Kahekili Beach Two RKT211102	N	9:34	26.5	36.835.		102.1	8.20	7.92	7.81	7.15	Ø	3	Ø
Canoe Beach RCB211102	N	10:00	26.5	36.234.	76.68	101.9	8.2\	2.67	2.69	3.19	ø	4	Ø
Wahikuli RWA211102	N	10:22	26.7	35.834.		100.4	8.19	2.67	2.72	2.60	Ø	5	Ø

NOTES AND COMMENTS (trends	equipment problems, errors, concerns).
Use the back of the form if needed.	

RNS - large shore break, 8.22 ×3 for PH

PPO - dog on beach, lots of surfus, bigswell; sand has filled in the beach - higher level than last sampaing session, 8.20 X3 for pH

1245 - medium wave action, freshwater blocked by Sand dunc, but relatively dear, can see fish inside, second salmity reading 369, 8.20 X2 for pH

PKT - continuing to sample off to the right due to rock exposure; ptt: 8.20 x3 times

PLOS - CAIMEN CONCIONS, PH 8.21 X2
Sites with potential for freshwater flow: Kaanapali Shores, Canoe Beach

TURBIDITY VERIFICATION								
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)				
Standard	0.06	541	56.1	625				
Pre-sampling	70.0	5.38	55.9	625				
Post-sampling	0.07	5.40	56.1	623				

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	4	KAL	M. Beeson				
Bacteria		-	-				

Signature (Team Lead):	Printed Name:	
Moses	Meredith Beeson	

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RS	Samplers	Buson, M.	
Session	96	(Last Name, 1st Initial)	Sampson, N.	
Date	11/2/2021			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS211102-N-1	Napili Bay	ď		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO211102-N-1	Pohaku	G		8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS211102-N-1	Kaanapali Sh			9:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT211102-N-1	Kahekili Beach Two	<b>D</b>		9:34	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB211102-N-1	Canoe Beach	D/		10:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA211102-N-1	Wahikuli	<b>D</b>		10:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	
		500 ml	
		500 ml	
		500 ml	7 - 7 - 7 -

Signature (Team Lead):	Printed Name:
Moleson	Meredith Beeson

Team	Polanui	Samplers
Session	96	(Last Name,
Date	11/3/2021	134 1

Mayen, I Harris, K

Changed salinity values to correct for error in salinity probe calibration. 1.5 ppt was subtracted from each measured value. QA

Meters and Pi	robes ID		
HQ40d:		21000	Q: \
pH: (0	DO:	4	Salinity: 3

	Freshwater			Salinity	Dissolved	Oxygen	777		1/2		People	e (within 1	00 ft)
Location Name Sample ID	Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
505 Front St PFF211103	У	8:15	26.2	35.9 m	6.18 N	93.4	8.07	·85 1.214	.84	.82	D	۵	٥
Lindsey Hale PLH211103	N	8:42	26.4	35.0 36.5	6.02	91.7	8.12	3.54	3.10	2.90	٥	0	0
Lahaina Town PLT211103	N	9:01	<b>3</b> 6.5	35.1 36.6	6.17	94.1	8.13	2.23		284	0	J	٥
Camp Olowalu OCO211103	N	9:36	28.8	35.38	6.23	97.2	8.10	.98	. 96	. 98	2	2	۵
Papalaua Pali OPP211103	N	9:54	27.6	35.4.9	6.59	102.5	8.16	2.96	3.15	3.06	۵	٥	۵

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.

PPF. Kit put PH probe in by mistake on 1st read @ Took 4th read on turbidity

PLT 2 monk Seals south 1st reef

No tope of on KCL

KCL tipped so we added some (too much?

TURBIDITY VERIFICATION								
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)				
Standard	0.07	S. 41	56.1	625				
Pre-sampling	0.09	5.39	55.7	626				
Post-sampling	0.06	5.41	56.0	628				

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment	-	¥						
Nutrients	5	KAL	N. Sampson					
Bacteria	-	-						

Signature (Team Lead):

**Printed Name:** 

Nalei Sampson

Sites with potential for freshwater flow: 505 Front St.

Team	Polanui	Samplers	Mayen, Y.
Session	96	(Last Name, 1st Initial)	Hams, K.
Date	11/3/2021	ist illitial)	· · ·

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
utrients							
PFF211103-N-1	505 Front St	Ø		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH211103-N-1	Lindsey Hale	凶		8:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT211103-N-1	Lahaina Town	ত		9:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO211103-N-1	Camp Olowalu	ਰ		9:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP211103-N-1	Papalaua Pali	Ø		9:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	77 10
		500 ml	
		500 ml	
		500 ml	

Signature (Team Lead):	Printed Name:	
Signature (Team Lead):	Nalei Sampson	

Team	R2RN	Samplers	Hutchingo, L; Hehemann, C; Becson, M.	Meters and	Probes ID		
Session	96	(Last Name, 1st Initial)	Floyd, M. Bieser, S.	HQ40d: \		2100Q:	1
Date	11/4/2021		observing	рН: 6	DO: <b>u</b>	1	Salinity: 3

Location Name	Freshwater	Time	Town	Salinity	Dissolved	Oxygen					People	e (within 1	00 ft)
Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
Honolua Bay RHL211104	N	8:00x	24.9	3632	6.59	98.0	8.16	17.2	15.8	169	0	7	0
Oneloa Bay RON211104	-	8:40A	26.1	36.95	46.69	102.1	8.20	1.23	1.63	1.29	0	0	0
Kapalua Bay RFS211104	1	9:05A	26.3	34.5	6.71	102.7	8.17	3.43	3.26	9.01	4	0)	0
Ka'opala Bay RKO211104	N	9:350	25.7	36.3 <sup>34</sup> .	86.70	101.3	8.14	17.4	17.0	16.8	0	0	0
Kahana Village RKV211104	M	9:552	263	36.835	37,16	109.5	8.26	401	3.97	4.25	1	4	1

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed

RAL-Rain sprinkes & high sort on outer break.
Salinity 2rd reading 8.16. Changed salinity values
to correct for error in

RON- Saliwing tested twice at 36.9 salinity probe

RFS - Salinity 2nd reading 36 Subtracted from each measured value. QA

2KO - 2nd toot salinity 36.2 ppt

RKV - 2nd rodding DO 90 109.4 -wester in stream, but not flowing to ocean

Rained last night in Kahana; drizzled throughout the Sites with potential for freshwater flow: Honolua Bay, Kahana Village

TURBIDITY VER	IFICATION		711	
77797-	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	6.07	5.41	56.1	625
Pre-sampling	0.06	5.43	55.7	627
Post-sampling	0.06	5.47	56.0	624

CHAIN OF CUSTODY INFORMATION					
	# of samples	Relinquished to	Contact		
Sediment	-	-	-1-		
Nutrients	5	KAL	M. Buson		
Bacteria		Cara-	-		

Signature (Team Lead):

**Printed Name:** 

Meredith Beeson

Team	R2RN	Samplers	Hutchings, L.	observing:	
Session	96	(Last Name, 1st Initial)	Hehemann, C.	Floyd, M.	
Date	11/4/2021		Becson, M.	Bieser, S.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL211104-N-1	Honolua Bay	d		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON211104-N-1	Oneloa Bay	Q		8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS211104-N-1	Kapalua Bay	Q		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO211104-N-1	Kaʻopala Bay	e (		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV211104-N-1	Kahana Village			9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	
Mes	Meredith Breson	