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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
7(0	G. Siver, M. Beeson	918/20	10:20	G. Silver M. Beeson	9/11/20	10:29
1 4	00.11	.,,,,,	9:10 T	.(	. (	

QA/QC Check	Inst#	Probe #	Last Cal Date		PR Verificati		PO Verificat	ST: ion Value	Acceptable Range	Comments/ Notes QA?
Temperature	NIST	n/a	n/a	Std Val	<u>NIST</u> 28.9 °C	NIST 28.8 °C	<u>NIST</u> <b>3</b> 0.0∘C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water
	l	3	n/a		28.3		₱ 29.5			NIST: expires 6/11/21
	1	2	n/a			28.4				
Salinity			3 months	Std Val	Tap water	Salin Std 8/24 date 35.0 ppt	Tap water	Salin Std 8/24 date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	ı	3	8/17/20		0.58	34.8	0.59	34.8		used HACH Standard
	l	2	8/17/20		0.59	34.9				
Dissolved Oxygen			1 year	Std Val	100	0%		0%	± 5 %	
		7	5/13/19		99.	7	101.	<sub>₹</sub> G S		coundn't unscrew probe cap
	Í	2	9/8/20		100		101.3			calibrated today, using this probe t
рН			3 weeks	Std Val	рН 7.00	pH 10.00	рН 7.00	pH 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle
	1	5	9/8/20		7.02	9.96	7.02	9.96		
	Í	6	9/8/20		7.01	9.94				
Turbidity			3 months	Std Val	<u>BLANK</u> <0.1	LOW 1-10 S.57 <sub>NTU</sub>	BLANK <0.1	LOW 1-10 5.57 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value
	1	n/a	8/17/20		0.07		0.07	5.60		
	NBBF	n/a	8/17/20		0.05	5-81				5.74 NTU from calibration

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

Team R2RS	Samplers	ame, Strickland, J.	Meters and Probes ID	
Session 76	(Last Name, 1st Initial)		HQ40d: 1	2100Q: N BBF
<b>Date</b> 9/09/2020		Beeson, M.	pH: 5 DO:	2 Salinity: 3

	G,		· >	Salinity	Dissolved	Oxygen			Turbidity		Peopl	e (within 10	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	(NTU)		water	beach	camp	
Napili Bay RNS200909	N	8: 25	26.1	34.4	6.38	95.7	8.10	2.75	2.44	2.78	0	3	6
Pohaku RPO200909	N	8:53	26,5	34.2	6.45	97.2	8.14	3.61	43.48	,3,57	6	0	6
Kaanapali Sh RKS200909	$\sim$	9:15	26.1	34.8	6.05	91.0	8.03	2.88	2.78	2.74 G	0	1	2
Kahekili Beach Two RKT200909	N	9:38	76.6	34.9	6.66	101.0	0 19	0.61	0.54	o.S9	0	0	Q
Canoe Beach RCB200909	N	10.02	27.2	34.6	6.92	1059	8.19	5.34	5.69	5.62	0	0	0
Wahikuli RWA200909	~	10:18	21.5	34.8	6.57	10).1	8.17	1.0)	0.98	1.05	0	Ó	0

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

changed batteries in HQ40d1 @ Napili Bay RPO-Two turtles in water

TMO: lab name (Tara Miller's Ohana)

TURBIDITY VERIFICATION										
	Blank (must be <0.10)	Low	Med	High						
Standard	0.07	5.57	57.5	599						
Pre-sampling	0.07	5.56	57.2	601						
Post-sampling	0.09	5.58	57.4	600						

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment		-	-					
Nutrients	Q	TMO	J. Strickland					
Bacteria		_	-					

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

Team R2RS	Samplers	Silver, O.	
Session 76	(Last Name, 1st Initial)	Strickland, J.	
<b>Date</b> 9/09/2020		Beeson, M.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS200909-N-1	Napili Bay	Ø		8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO200909-N-1	Pohaku	₫		8:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS200909-N-1	Kaanapali Sh			9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT200909-N-1	Kahekili Beach Two	ď		9:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB200909-N-1	Canoe Beach	ď		10:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA200909-N-1	Wahikuli	Ø		10:18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	
			500 ml	
			500 ml	
			500 ml	_

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

Team Polanui	Samplers	G, silver K. Gund	Meters and Probes ID	
Session 76	(Last Name, 1st Initial)	M. Beeson	HQ40d: \	2100Q: NBBF
<b>Date</b> 9/10/2020		K. Harris	pH: 5 DO: 7	Salinity: 3

	Streams	T:		Salinity	Dissolved	Oxygen	"U		Turbidity		Peopl	e (within 10	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	(NTU)		water	beach	camp	
505 Front St PFF200910	Y	g:20	27.0	33.8	6.29	95.3	8.03	5.99	6.09	5.84 5.32	0	3	0
Lindsey Hale PLH200910	N	8:46	27.3	34.8	6.28	96.2	8.03	15.2	16.0	15.8	0	2	0
Lahaina Town PLT200910	N	9:0Z	27.4	34.3	5.89	90.1	8,03	34.4	34.7	35.9 K		0	Ö
Camp Oluwalu OCO160910	N	9:30	26.5	35.2	6.43	97.5		5.80	5.63	5.58	0	D	0
Papalaua Pali OPP160910	N	9:47	26.5	35,1	6.64	100,5	8.14	7.53	7.39	7.67	0	0	0
											=		

	AND COMMENTS (trends, equipment problems, errors, concerns). ack of the form if needed.	
AS	HORE US. CLOSET TO BRIDY - SAME OTHER SITES (HIGHER TIDE)	
· Post use	-sampling vial had scratch, new vial-will tomorrow 9/11 (new vial read 0.10).	

	Blank (must be <0.10)	Low	Med	High
Standard	0.09	5.58	57.4	600
Pre-sampling	0.08	5.58	57.4	600
Post-sampling	0.11 0.06	5.67	57.5	598

	# of samples	Relinquished to	Contact
Sediment			
Nutrients	5	TMO	J. Strickland
Bacteria			

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

Team Polanui	Samplers	GSilver	K. Gund
Session 76	(Last Name, 1st Initial)	M. Beeson	
<b>Date</b> 9/10/2020		K. Harris	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF200910-N-1	505 Front St	Ø		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH200910-N-1	Lindsey Hale			8:46	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT200910-N-1	Lahaina Town	M		9:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO160910-N-1	Camp Oluwalu	M		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP160910-N-1	Papalaua Pali	Ø		9:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	
Orace Ev	Grace Silver	

Team R2RN	Samplers G. Silver	Meters and Probes II	D
Session 76	(Last Name, M. Beeson 1st Initial) L. Hutchings	HQ40d:	2100Q:
<b>Date</b> 9/11/2020	cici Hehemann	pH: DO	: Salinity:

	C4			Salinity	Dissolved	Oxygen		People			e (within 10	00 ft)	
Location Name Sample ID	Streams 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
Honolua Bay RHL200911	N	8:02A	26.0	34.7	6.18	92.6	8.11	0.84	0.69	0.73	0	(	٥
Oneloa Bay RON200911	N	835A	26.2	35.0	6.72	101.2	8.14	0.70	0.85	0.69	0	1	0
Kapalua Bay RFS200911	N	855A	26.7	34.4	6.66	100.8	8.10	3.576 4.10	S 3.25	3.32	١	0	0
Ka'opala Bay RKO200911	N	9:26	26.6	34.1	0.37	95.7	8.05	13.2	13.2	12.9	0	2	0
Kahana Village RKV200911	N	9:42	26.8	34.8	6.65	100.9	8.09	31.0	29.3	29.3	0	O	0

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

RHL - sail bout in bay, 4th turbicity reading is

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.10 *	5.57	57.5	599
Pre-sampling	0.07	5.62	57.4	600
Post-sampling	0.07	5.60	57.5	599

	# of samples	Relinquished to	Contact	
Sediment	-	-	-	
Nutrients	5	TMO	J. Strickland	
Bacteria	_	-	-	

Signature (Team Lead):	<b>Printed Name:</b>	
moleson	Meredith	Beeson

Team	R2RS	Samplers	G, Silver	* Gond	
Session	76	(Last Name, 1st Initial)	M, Beeson	L. Hotchings	
Date	9/11/2020		K, Harris	C. Hehemann	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL200911-N-1	Honolua Bay			8:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON200911-N-1	Oneloa Bay	ø		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS200911-N-1	Kapalua Bay	Ø		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO200911-N-1	Ka'opala Bay	D/		9:26	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV200911-N-1	Kahana Village	Ø		9:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	

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