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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
89	M. Beeson, N. Sampson	6/7/21	9:27	M. Beeson, N. Sampson	6/10/21	10:35

QA/QC Check	Inst#	Probe	Last Cal Date			tE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
 Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 26.4 °C	NIST 26.\ _{°C}	<u>NIST</u> 27.5 °C	<u>NIST</u> _ ~ ∘C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	2	7/8/21		26.3		27.4				
	2	3	718121			25.8		1			
Salinity			3 months	Std Val	Tap water	Salin Std 09/25 date 35.0 ppt	Tap water	Salin Std 09/25 date 35.0 ppt	± 1 ppt		
	2	2	3/15/21		0.36	34.8	0.39	35.3			
	2	3	3/15/21		0.36	34.7	1	_			
Dissolved Oxygen		~	1 year	Std Val	10	0%	100%		± 5 %		
	2	102	9/28/20		99.	7	99	8			
	2	1	9/28/20		97.(l	96	9		had to switch to this prose on The	connecti
рН			3 weeks	Std Val	pH 7.00	рН 10.00	pH 7.00	pH 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle	pre
	2	Q	6/7/21		7.02	9.98	7.00	9.95			
	2	5	6/7/21		7.01	9.98	_				
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	
	NBBF	n/a	3/15/21		0.06	5.72	0.09	5.73		\$ LOW: 5.75 NTU	
	1	n/a	3/15/21		0.08	5.64	1			*LOW: 5.77 NTV	

QA: * Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Lab: KAL

Team	R2RS	Samplers	Beeson, M. Galagher, C	Meters and Probes ID	Meters and Probes ID			
Session	89	(Last Name, 1st Initial)	Sampson, N. Kranberg, J	HQ40d: 2	2100Q: NBBF			
Date	6/08/2021		Duford, A. (observing)	pH: 6 DO:	2/1 * Salinity: 2			

	Streams	Time		Salinity	Dissolved	Oxygen	11		T 1.114		Peopl	e (within 1	00 ft)
Location Name 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 (NTŲ)		water	beach	camp
Napili Bay RNS210608	N	8:14	25.4	34.0	6-48	95.2	8.04	0.99	1.10	1.03	3	12	Ø
Pohaku RPO210608	N	9:42	25.5	33.8	6.35	93.4	8.12	27年	0.85	0.82	4	5	Ø
Kaanapali Sh RKS210608	N	9:01	25.5	34.8	6.62	98.6	8.06	1.30	1-34	1.37	1	7	ø
Kahekili Beach Two RKT210608	N	9:23	25.9	35.0	6.49	96.7	8.11	0.96	1.40	1.03	Ø	Ø	ø
Canoe Beach RCB210608	N	9:51	26.9	34.5	6.53	98.9	8-13	8.28	7.69	7.72	D	1	\$
Wahikuli RWA210608	N	10:12	26.7	34.1	650	97.9	8.13	2.08	2.08	2.14 JE 2.67	0	8	Ø

	ND COMMEN' k of the form if		pment prob	olems, errors,	concerns).	
RNS -	SUPS our	further,	pretty	calm		
-RKT - T	wo six-ma	n outrigg	ers			MEN
RK7-	Do probe	switched	out to	r probe	#1 - concenor	Ber
PCB - 3	still some	construc	tion,	jet skis	have start	cd
	up					
RWA -	very char	resprear	the st	ione (sh	ion break)	
	mid-fide					

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	5.75	59.4	605
Pre-sampling	0.07	5.72	58.9	605
Post-sampling	0.08	5.71	59.0	605

CHAIN OF CUS	STODY INFORMATION	ON		
	# of samples	Relinquished to	Contact	
Sediment	-	-	-	
Nutrients	6	KAL	N. Sampson	
Bacteria	-	-	-	

moreson

Meredith Beeson

evening

Team	R2RS	Samplers	Beeson, M.	Dufurd, A. (orssen) Signature (Team Lead):	Printed Name:
Session	88-89	1st Initial)	1 -	Galagher, C.	
Date	6/08/2021		Freiberg, T.	Kranburg, J.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS210608-N-1	Napili Bay	Q		8:14	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO210608-N-1	Pohaku	ď		8:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS210608-N-1	Kaanapali Sh	ď		9:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT210608-N-1	Kahekili Beach Two	q		9:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB210608-N-1	RCB210608-N-1 Canoe Beach			9:51	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA210608-N-1 Wahikuli		Ø		10:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	
Signature (Team Lead): NalW Lyga—	Nalei Sampson	

Hui O Ka Wai Ola - Sample Collection Datasheet

Team Polanui	Samplers	mayon. Y	Beeson, M.	Meters and	Probes ID	
Session 89	(Last Name, 1st Initial)	Itarris. Kit	Sampson. N.	HQ40d: 2		2100Q: NBBF
Date 6/09/202		Grund.K		рН: 6	DO: \	Salinity: 2

Location Name Streams Tim		Salinity		ty Dissolved Oxygen		Turkidity			Peop	le (within 10	00 ft)	
Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal		(NTU)		water	beach	camp
4	8:16	25.9	34.6	5.71	84.9	8.02	2.10	2.08	1.95	0	23	٥
N	8:38	26.5	34.7	5.10	76.7	8,03	1,29	1.25	1.49	2	1	0
N	9:00	27.0	34.1	5,37	81.1	8.02	6,35	5.55	5.91	6	3	0
N	9:29	26.1	35.0	6,24	93.2	8.03		1.30	1.23	0	0	0
N	9:49	25.7	34.7	6.78	100,5			3,58	3,69	0	0	1
	N N N	Flowing (of collection) Y 8:16 N 8:38 N 9:00 N 9:29	Flowing (of collection) (°C) variable 7 8:16 25.9 N 9:00 27.0 N 9:29 26.1	Flowing (of collection) Y 8:16 25.9 34.6 N 8:38 26.5 34.7 N 9:00 27.0 34.1 N 9:29 26.1 35.0	Streams Flowing (of collection) Time (of collection	Streams Flowing (of collection) Time (of collection	Streams Flowing (of collection) Time (of collection) Variable (°C) Varia	Streams Flowing (of collection) Temp (°C) 30-35 normal (mg/L) 85-105 normal (mg/L) 85-105 normal (mg/L) 85-105 normal (mg/L) 8-8.3 normal (mg/L) 8	Streams Flowing (of collection) Temp (°C) variable normal (mg/L) 8-8.3 normal (NTU) 9 8:16 25.9 34.6 5.71 84.9 8.02 2.10 2.08 N 8:38 26.5 34.7 5.10 76.7 8.03 1.29 1.25 N 9:00 27.0 34.1 5.37 81.1 8.02 6.35 5.55 N 9:29 26.1 35.0 6.24 93.2 8.03 1.33 1.30	Streams Flowing (of collection) Y 8:16 25.9 34.6 5.71 84.9 8.02 2.10 2.08 1.95 N 8:38 26.5 34.7 5.10 76.7 8.03 1.29 1.25 1.49 N 9:00 27.0 34.1 5.37 81.1 8:02 6.35 5.55 5.91 N 9:29 26.1 35.0 6.24 93.2 8:03 1.33 1.30 1.23	Streams Flowing (v/N) Time (of collection) Temp (°C) variable Turbidity (NTU) water 1	Streams Flowing (of collection) Temp (of

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

- -flat water, calm, low tide no people in water. (PFF)
- -(PLH) Calm, flat water, low fide, no reople
- reopie .(PLT) low tide, two dogs playing in water 2 snorkelers, no wind (Very low tide)
- -(000) Calm waters, low tide,
- -(OPP) small swell, light wind

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.08	5.75	59.4	605
Pre-sampling	0.07	5.72	54,0	606
Post-sampling	0.08	1 F .2	58.1	604

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	KAL	M. Buson
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:
Mos	Meredith Bason

Team	Polanui	Samplers	Bueson, M.	Grund, K.	
Session	89	(Last Name, 1st Initial)	Sampson, N.		
Date	6/09/2021		Mayin, Y. Harris, K.		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
PFF210609-N-1	505 Front St	2		8:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH210609-N-1	Lindsey Hale	Ø		8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT210609-N-1	Lahaina Town	ď		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
0 CO 0 210609-N-1	Olowalu Pier	G/		9:29	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP210609-N-1	Papalaua Pali	ď		9:49	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	

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

Team	R2RN	Samplers	Hutchings, L. San	40801, N.	Meters and F	Probes ID		
Session	89	(Last Name, 1st Initial)	cramer, S.		HQ40d: 2		2100Q:	NBBF
Date	6/10/2021		Bewon, M.		рН: (о	DO:	1	Salinity: 2

	Streams	m:		Salinity	Dissolved	Oxygen			T 1:14		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	Turbidity (NTU) 5.73,		water	beach	camp	
Honolua Bay RHL210610	N	S':00a	24.8	33.8	6.16	89.3	8.10	5.44 2.30	3.06	3.73	15	10	0
Oneloa Bay RON210610	N	8:40A	25.2	34.8	6.82	100.2	8.17	0.87	0.78	0.84	2	1	-6
Kapalua Bay RFS210610	N	9:004	25.5	34.4	6.04	89.0	8.05	1.02	1.09	0.92	25	27	0
Ka'opala Bay RKO210610	N	9:300	26.0	34.3	5.92	87.8	8.05	4.46	4.68	4.82	0	4	0
Kahana Village RKV210610	N	9:50x	26.0	34.0	5.77	85.5	8.05	4.83	4.86	5.16	5	9	0
													- Again

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

RYL-turbidity-lots of particles in turbidity sample bottle PON-small waves, wind

RHL: Turbidity

19 reading: 2.30

2rd: 3.06

3rd: 3.73

4th: 5.44

Calm day Sprinking last right - ground west

TURBIDITY VER	IFICATION				
Standard	Blank (must be <0.10)	Low	Med	High	
	0.08	5.75	59.4		
Pre-sampling	0.09	5.71	58.8	606	
Post-sampling	0.09	5.73	59.0	604	

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

Signature (Team Lead):	Printed Name:
Nalekfyra	Nater Sampson

Team	R2R N	Samplers	Hutchngs, L.	Sampson, N.	
Session	89	(Last Name, 1st Initial)	Cramer, s.		
Date	6/10/2021		Becson, M.		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RHL210610-N-1	Honolua Bay	Ø		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON210610-N-1	Oneloa Bay	Ø		8;40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS210610-N-1	Kapalua Bay	Ø		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO210610-N-1	Ka'opala Bay	Ø		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV210610-N-1	Kahana Village	Ø		9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Printed Name:	
Nalei Sampson	
	. 1 1 . 6