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



Session No:	EJ		ers (pre-samp ON, JER NNELL		Φ3,	re Date:	Pre Tin	pm Ese	Verifiers (post-sa SHUSUN, SERI VANN		Post Time:
QA/QC Check	Inst#	Probe	Last Cal Date		PI	RE: ion Value	PC	OST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 301 °C	<u>NIST</u> 30,3 °C	NIST 27.0 ℃	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap wa	ter
	3	3	8/17/23		29.5	30.5	26.9			1	
Salinity			3 months	Std Val	Tap water	Salin Std 3/6/28ate 33, 7 ppt	Tap water	Salin Std SWW date 34.5 ppt	± I ppt	Tap water - compare pre & post value Salinity Std - compare to value on Salinity Std bottle	
	3	3	2/28/2	3	0.06	34.8 34.6	0.05	34.6	46.3	Salinity Std bottle Probes 3+4 recalibrated Verified on 3/22/23	and
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	3	1	2/6/23 8/15/22	Charles 199		2.6%. 1.3%.	IQ Southern Self-American	5,9		Name of the second seco	
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 bottle	eon
	3	7	3/20/23		7.00	10.01	7.02	10.03		And the second s	The second secon
	4	6	3/20/23		7.00	10.01	All the grant special	page 100 and 1			Annaparation of the second
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 5.23 NTU	BLANK <0.1	LOW 1-10 5.13 <sub>NTU</sub>	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	216123		0.06	5.22	0.05	5.32	Terra Leadh	10W 5,23 NTU ,	STANDARD
	4	n/a	1/16/23		0.09	6.43	Manager Street	Section Section and Authorities Congression and Congression an		LOW 6.43 NTU	

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

Team	R2RS	Samplers	[-12E1BERG, T.	Meters and I	Probes ID	
Session	119	(Last Name, 1st Initial)	1612anBCRG, I	HQ2200: 3		2100Q: 1
Date	3/21/2023		Erwin, J.	pH: 7	DO: 1	Salinity: 3

The second second	F	Time	W 1	Salinity	Dissolve	d Oxygen			T 111.		Peop	ole (within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	PH 8-8.3 normal		Turbidit (NTU)	y	water	beach	camp
Napili Bay RNS230321	N	8:15	36.8	36.8	6.94	102.4	8.18	1.45	1.31	1.14	\	6	0
Pohaku RPO230321	N	8:45	24.3	35.6	6.99	102.1	8.13	10.5	11.3	10.8	0	0	0
Kaanapali Shores RKS230321	N	9:10	24.8	36.4	Co.82	100.6	8.19	2.98	2.70	2.58	Co	10	0
Kahekili Beach Two RKT230321	N	9:30	25.0	36.7	6.77	100.6	8.20	4.13	4.47	4.06	3	11	Ø
Canoe Beach RCB230321	N	10:00	25.4	34.6	6.78	100,4	8.17	1.51	1.60	1.42	3	2	4
Wahikuli RWA230321	N	10:20		34.0	6.79	100.6	8.19	3.51	3.33	3.35	İ	3	0

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

RNS-2-3FL SWELL, TEMP 24.6°C, Salinity 36.8 ppt midride

RPO- 2FL SWELL MUNLY. SMELL OC SEWOGE NEED PON TO READ 21000

RKT- ~1-2ff shovebreak, mid-tide, churned up

RUB - CACH WATER RWA-Calm conditions

Sites with potential for freshwater flow: Kaanapali Shores, Canoe Beach

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	5.23	57.4	619
Pre-sampling	0007	5.27	56-4	(022
Post-sampling	0.05	5.37	56.9	624

	# of samples	Relinquished to	Contact
Sediment	-	-	project the pr
Nutrients	6	OLP	Jess Erwin
Bacteria	<u>.</u>		

Signature (Team Lead): Printed Name:

Signature (Team Lead): Printed Name:

Signature (Team Lead): Printed Name:

Salinity out of range? OLF

Carst in Juled July 2021

base is Wart in Sample Collection translet

Team R2RS	Samplers	Freiberg, T.
Session 119	(Last Name, 1st Initial)	Kranberg, J.
Date 03/21/23		Envin, J.

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS230321-N-1	Napili Bay	42		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO230321-N-1	Pohaku	□Z′		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS230321-N-1	Kaanapali Sh	Ø		9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT230321-N-1	Kahekili Beach Two	<b>a</b>	g (D /	9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB230321-N-1	Canoe Beach	Q		10:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA230321-N-1	Wahikuli	A		10:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
1 - 1			500 ml	
			500 ml	
			500 ml	PETALEN PROFIZE AT BAN
	6.25		500 ml	O D SUPPLIES CONTRACT TO SUPPLIES

Signature (Team Lead):	Printed Name:	- A
Dess Es	Jessica Emin	

Team GUND, K GONZALEZ, T JOHNSON, E Polanui Meters and Probes ID Samplers (Last Name, Session 119 2100Q: 1 HO2200: 3 1st Initial) HARRIS, K Date 3/22/2023 Salinity: 3 DO: 1 pH: 7

	-		E Pros.	Salinity	Dissolve	l Oxygen			Peopl	e (within 1	00 ft)
Location Name Sample ID	Freshwater 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 PFF230322	4	8:16	25.0	36.21	6.20	91.9%	8.08	8.83 11.9 11.2	0	6	0
Lindsey Hale PLH230322	N	8:43 **		36.00	5.66	83.81	8.05	10.1 10.6 10.3	0	4	0
Lahaina Town PLT230322	N	9:02 AM	25.1	36.3	5.61	83.14	8.05	4.85 3.92 6:45	4	1	0
Camp Olowalu OCO230322	N	9:36 <sub>tm</sub>	26.0	36.2	6.50	98.11.	8.03	9.00 10.3 9.03	0	0	0
Papalaua Pali OPP230322	N	9:57	26.1	36.9	6.79	102.61	8.13	6.77 6,93 7,37	0	0	١

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

PRF-RAN 4TH READ FOR PRE-SAMPLE "HIGH". 624 2xe
"DUTIN CAST & SPRINKLE OF RAIN". 624 2xe
. 505 STREAM FLOWING, DIFFERENT
DITTE CTION, Photo taken by Kristy

"505- TOOK SECOND READING BELAUSE SALINITY WAS OUT OF RANGE BUT STATED AT 36.49PT

\*PLH DERINAGE PIPE IS CLEARED \*PLH TOUR SECOND READING BELAUSE SALINITY \* DO 1. OUT OF RANGE - NEW VALUES ENTERED

PLT SURE T WAVE ACTION
PLT TURBIDITY, DIDNT INVERT INBETWEEN RENDINGS
PLT TOOK 41th RENDING
LOW TIBE - LOWEST TIDE @ 10:40 AM
Sites with potential for freshwater flow: 505 Front St.

Sending other sodivety probe into field

TURBIDITY VERIFICATION							
ego pero de Cabi	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)			
Standard	0.06	5.23	57.4	619			
Pre-sampling	0.05	5,26	57.1	624			
Post-sampling	0.06	5.27	54.0	623			

	# of samples	Relinquished to	Contact
Sediment			-
Nutrients	5	OLP	EJOHNSON
Bacteria	(A)		00-111-0-1

Signature (Team Lead): Pr

**Printed Name:** 

EMILY JOHNSON

7

Team Polanui	Samplers	GUND, K	JOHNSON, E
Session 119	(Last Name, 1st Initial)	COONZALEZIT	
Date 3/22/2023		HARRIS, K	

A STATE OF THE STA

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF230322-N-1	505 Front St	ď		8:16 m	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH230322-N-1	Lindsey Hale	ď		8:43 m	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT230322-N-1	Lahaina Town	<b>D</b>		9:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO230322-N-1	Camp Olowalu	Ø		9:36 AM	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP230322-N-1	Papalaua Pali	Ø		9:57 pm	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments					
			3 3 5	500 ml	
	000en			500 ml	
A STATE STATE				500 ml	a parula distribution di anno di
		0		500 ml	

Signature (Team Lead):	Printed Name:
Emily Jun	EMILY JOHNSON

Team	R2RN	Samplers	144 0 1 00 1	Meters and Probes ID	
Session	119	(Last Name, 1st Initial)	Hutchings, L	HQ2200: 3	2100Q: 1
Date	03/23/23	ist futual)	ENMY, J. Hehemann, C.	pH: 7 DO:	I Salinity S

				6 11 11	Dissolved	Oxygen					People	(within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (ŅTU)		water	beach	camp
Honolua Bay RHL230323	N	8:20x	23.9	35.4	6.42	92.9	8.12	3.57	3.39	3.50	Z	10	0
Oneloa Bay RON230323	N	9:05	24.2	36.3	6.91	101.3	8.17	0.51	0.4539	0.53	0	5	0
Kapalua Bay RFS230323	N	9:25	24.5	35.8	6.71	98.3	8.12	1.81	1.95		24	45	Ó
Ka'opala Bay RKO230323	N	10:10	24.6	35.3	6.55	96.0	8.07	7.49	7.82	7.80	0	0	0
Kahana Village RKV230323	N	10:25	24.5	35.3	6.51	95.2	8.07	2.53	2.43	2.53	0	2	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

RHL - Calm Conditions, Znc) 52191114 35,3

RON-Surf, and salinity 36.2, 4th turbitity 0.45

RFS- calm, People in water and beach

Sites with r	otential	for freshwater	flow:	Honolua	Bay,	Kahana	Village
DILL'S WILLI	, ottomication						

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	5.23	57.4	619
Pre-sampling	0.07	5.35	56.9	627
Post-sampling	0.05	5.32	57.2	623

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	OLP	Jess Envin
Bacteria	-	-	

Signature (Team Lead):	Printed Name:	
Desses	Jessicatrum	

Team	R2RN	Samplers	HUTCHINGS, L.		
Session	119	(Last Name, 1st Initial)	EVWIN 1).		
Date	03/23/23		Hehemann, C.		

Sample 1D	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL230323-N-1	Honolua Bay	D/		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON230323-N-1	Oneloa Bay	Q		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS230323-N-1	Kapalua Bay	Ø		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO230323-N-1	Kaʻopala Bay	D/		12:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV230323-N-1	Kahana Village	A		10:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments								
17				A. 2.	500 ml			
					500 ml			
					500 ml			
					500 ml			

Signature (Team Lead):	Printed Name:	
Oess C.	Jessica Envin	
		-