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



Verifiers (pre-sampling): James Strickland, C Maxwell Verifiers (post-sampling): CMaxwel J Stockland Session No: Pre Date: Pre Time: Post Date: **Post Time:** 3/13/26 10:45 3/9/20 9:45 70

QA/QC Check	Inst #	Probe	Last Cal Date			RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST 3	n/a	n/a	Std Val	<u>NIST</u> 22.3 _{°C}	NIST 2Z.1 _{°C}	<u>NIST</u> 21.6 _{°C}	<u>NIST</u> ℃	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	(3	n/a		21.9		21.2				
	ı	2	n/a			21.8					
Salinity			3 months	Std Val	Tap water	Salin Std 1/27/20 date 34.2 ppt	Tap water	Salin Std 1 27 26date 34.2 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	1/6/20		0.04	34.1	0.04	34.Z			
	Į	2	1/6/20		0.04	34.2					
Dissolved Oxygen	2		1 year	Std Val	10	0%	10	0%	± 5 %		
	Į	Î	5/13/19		101	00%	102.0%				
	ı	2	8/5/19		96	,5%	, ,				
рН			3 weeks	Std Val	pH 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	
	l	5	3/9/20		7.03	10.05	7.07	10.08			
	ı	6	3/9/26		7.04	10.06					
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 5.59 _{NTU}	BLANK <0.1	LOW 1-10 5.59NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	i	n/a	1/27/20		0.05	5.57	0,06	5.60			
		n/a									

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

* Delay times are ok?
* Other equipment issues?

Team	R2RS	Samplers	Tarmakens, B	T. Mergan.	TM	0930	Meters and Pro	obes ID		
Session	70	(Last Name, 1st Initial)	Kranberd, J		<i>b</i> I	1040	HQ40d:		2100Q:	Î
Date	3/10/20		Ų.		**************************************		pH: 5	DO:	1	Salinity: 3

	Stuceme	TO:		Salinity	Dissolved	Oxygen	pН		Turbidity		People	People (within 100 ft)		
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (ppt) (°C) 30-35 variable normal		(mg/L)	(%) 85-105 normal		(NTU)			water	beach	camp	
Napili Bay RNS200310	7	8:19	24.2	35.7	8.98	101.2	8.18	1.34	1.51	1,27	Clear Sm. waves C Shore	4	6	
Pohaku RPO200310	2	8:53	23.5	34.0	7.13	101.6	8.15	7.64	8.38	7.42	cum chi	l	-0	
Kaanapali Sh RKS200310	N	9:15	24,1	35.3	6.97	101,1	8,18	3.15	2.70	2.41	Color	4	9	
Canoe Beach RCB200310	NA	9:42	25.2	34.5	6.73	99,3	8.19	.96	,95	,90	Flat	ķ [6	
Wahikuli RWA200310	NK	10:06	24.8	34.1	6.87	100.2	8.22	493	1.15 hg	1.20	Flat	Ø	0	
										erekananista erekananista kapan	0			

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed.
KPO - Warn, clen, Surfers 60 - 70 yeards out.
RKS-4 mentle on beach 2 surfers 50ft. out, 2 paddle
boarders 60-70 yards out Sunny, clear
boarders 60-70 yards out Sunny, clear RCB rowaves, clear, surroy RWA John, clim, surroy
RWA Colm, clim, During

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	.05	5.59	587	640
Pre-sampling	0.090.06	5.50	58.9	638
Post-sampling	0.05	5.54	59.0	636

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	LLHS	CMaxwel
Bacteria	_	-	-

Signature (Team Lead):	Printed Name:
Catherin Maryal	Catherine Maxwell

Team	R2RS	Samplers	Jarmaleani, B	Morgan, T	
Session	70	(Last Name, 1st Initial)	Kranberg, J	9,	
Date	3/10/20				

Sample ID	Sample ID Location Name		Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
RNS200310-N-1	Napili Bay	□ 2 ′		8:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO200310-N-1 Pohaku		□ /		8:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS200310-N-1	Kaanapali Sh	₽Z′		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB200310-N-1	Canoe Beach	12		9:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA200310-N-1	Wahikuli	□ /		10:06	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments										
			500 ml							
,			500 ml							
			500 ml							
		П	500 ml							

Signature (Team Lead):	Printed Name:
Carlierie Maywell	Catherine Maxwell
\ '	

Team	Polanui	Samplers	me, Banka R	Meter	s and Pr	obes ID		
Session	70	(Last Name, 1st Initial)	0 1 8	HQ400	d: (2100Q	: (
Date	3/11/20		,)	pH:	5	DO:	1	Salinity: 3

	C4			Salinity	Dissolved	Oxygen	£		Turkidita		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)		water	beach	camp
505 Front St PFF200311	У	8:15	24.5	35.6	5.52	81.0	8.06	3.05	2.68	2.27	Þ	d	\$
Lindsey Hale PLH200311	N	8:45	24.3	35.0	6.02	87.9	8.08	5.98	5.55	6.08	' ø	3	ø
Lahaina Town PLT200311		9:04	24.8	34.7	6.10	89.6	8.08	6.99	6.19	6.39	2	3	ϕ
Olowalu Pier OSF200311	_	9:35	25.0	35.5	6.36	94.0	8.07	2.59	2.19	2.14	Þ	Ø	þ
									Water state of the				,
						8							

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

DO NOT TAKE NUTRIENT SAMPLE FROM OLOWALU PIER THIS EVENT (Will Only Be Taken Quarterly)

PFF stream still flowing & 30 ft to N of straight to ocean

TURBIDITY VER	URBIDITY VERIFICATION					
	Blank (must be <0.10)	Low	Med	High		
Standard	0.05	5.59	58.7	640		
Pre-sampling	0.08	5.53	59.0	438		
Post-sampling	D. 08.7.5	5.54	59.0	637		

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	3	LLHS	J Strickland
Bacteria		-	=

Signature (Team Lead): Printed Name:

James Strickland

Team	Polanui	Samplers	Harris, K
Session	70	(Last Name, 1st Initial)	Bayley, R
Date	3/11/20		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
trients							
PFF200311-N-1	505 Front St	l e		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 μm disposable filters	
PLH200311-N-1	Lindsey Hale			8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 μm disposable filters	
PLT200311-N-1	Lahaina Town			9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 μm disposable filters	

Sediments				
		. 🗆	500 ml	
×			500 ml	
			500 ml	
			500 ml	

Signature (Team Lead):	Printed Name:	
On Start	James Strickland	

Team	Olowalu	Samplers	ARKIN G
Session	70	(Last Name, 1st Initial)	GLEND, R
Date	3/12/20		RANIERI, L

Meters and Pr	obes ID			
HQ40d:		2100Q:	1	
рн: 5	DO:	}	Salinity:	3

A 412.	Ctusous	.		Salinity	Dissolved	Oxygen	, II		Tuubidita		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	900	Turbidity (NTU)	6	water	beach	camp
Martin Hale OPM200312	N	7:15	23.7	35.7	6.26	90.6	8.08	7.95	7,30	7.51	Ø	Ø	Ø
Camp Olowalu OCO200312	N	7:35	24.2	35,6	6,58	96.1	8,11	2.71	2.97	2.73	12 learyak	4	Ø
Ukumehame OUB200312	N	7:52	24.3	35.7	6.75	98.9	8.14	12.7	12.5	13.1	Ø	Ø	Ø
Papalaua Beach OPB200312	N	8:09	24.5# 35.9	35.9 YK	6.71	98.8	8.14	6.93	6.76	6.15	\emptyset	Ø	Ø
Papalaua Pali OPP200312	N	8:21	24.5	35.8	le.66	98.0	8,14	6.42	5.76	6.68	Ø	0	Ø

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

DO NOT TAKE NUTRIENT SAMPLES THIS EVENT

(Will Only Be Taken Quarterly)

Preuty Rouny Morning today - misty all around

TURBIDITY VER	IFICATION	00		
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	5,59	58.7	640
Pre-sampling	0.06	5.58	69.0	638
Post-sampling	0.06	5,58	59.1	639

	# of samples	Relinquished to	Contact
Sediment	0	N/A	N/A
Nutrients	0	N/A	N/A
Bacteria	0	N/A	N/A

Signature (Team Lead):	Printed Name:
a Stan	Jomes Strichland

Team	Olowalu	Samplers	ARKIN, G
Session	70	(Last Name, 1st Initial)	Cundik
Date	3/12/20		Ronjeri L

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
Sediments							
					500 ml		
>					500 ml		
					500 ml		
					500 ml		

Printed Name:
James Strickland

Team	R2RN	Samplers	Hutchings, L	Meters and Probes ID					
Session	70	(Last Name, 1st Initial)	Berail	HQ40d:			2100Q:		
Date	3/13/20		Miller, T	pH:	5	DO:	l	Salinity: 3	

	Strooms	TP:		Salinity	Dissolved	Oxygen	nИ		Turbidity (NTU)		People (within 100 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				beach	camp	
Honolua Bay RHL200313	7.504	Z" N	23.5	34.5	6.87	98.7%	8.11	97.3	92.7 10t		0	\bigcirc	
Oneloa Bay RON200313		825	24.3	35.8	6.96	102.1	8.18	0.80	0.96 0.88	3 0	0	0	
Kapalua Bay RFS200313		8.50	24.4	35.1	6.93	1014	8.16	3.26	2.80 3.03	3 4	9	0	
Ka'opala Bay RKO200313	N	9:10	24.4	34.9	6.83	99.9	8.12	13.6	14.0 14.3	0	1	0	
Kahana Village RKV200313	Alm	9.25	24.6	35.0	7.03	103.1	8.16	9.76	9.20 9.69	0	0	0	
20 10	87 10	1.05%				2					3 0 300	Ampail 18 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).	TURBIDITY VERIFICATION							
Use the back of the form if needed. HNL 4M Turbity test 96.9 fb		Blank (must be <0.10)	Low	Med	High			
Rough water o	Standard	0,06	5.59	58.7	640			
	Pre-sampling	0,07	5.49	590	639			
RFS um Turnstuy test 2.57	Post-sampling	0.06	5.60	59.2	639			

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment		-	-					
Nutrients	5	LLHS	C maxwell					
Bacteria	-	-	-					

Signature (Team Lead):	Printed Name:	Aug College
Carherin M	Exwell Catherine Maxwell	

Team	R2RN	Samplers	Hutchings, L
Session	70	(Last Name, 1st Initial)	Berg, L
Date	3/13/20		Miller, T

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL200313-N-1	Honolua Bay			7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON200313-N-1	Oneloa Bay	©		8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS200313-N-1	Kapalua Bay	©		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO200313-N-1	Ka'opala Bay	U		9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV200313-N-1	Kahana Village			9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
				100 mg			

Sediments	Sediments									
				500 ml						
~				500 ml						
				500 ml						
				500 ml						

Signature (Team Lead):	Printed Name:	
Catherin Maxwell	Catherine	Maxwell