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



Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time:

56 Streetland J. Marqueelle 5/13/19 10:20am Banker, B.; Strickland, J. 5/17/19 10:30 Am

			Danker,	100							
QA/QC Check	Inst#	Probe	Last Cal Date			RE: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes	QA
remperature	NIST 2	n/a	n/a	Std Val	NIST 24.7 °C	NIST 23.€ °C	NIST 24.5°C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	1	3	n/a		24.4		24.9			PRESE G3 READING HIGHERTHAN NIST - RETEST NIST-24.7, 43- 24.6°	
	1	2	n/a		7	23.6		-		24.6°	
Salinity			3 months	Std Val	Tap water	Salin Std 11/26/18 date 35 ppt	Tap water	Salin Std #126 [18]date 35 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	311119		0.04	34.8	0.04	34.7		used Hack standard	
	1	2.	3/11/19		0.04	34.8	~	-			
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %		
	1	i	5/13/19		(00	0.0	103.0			parts Changed or Calibrated	
	١	2	8767 i8		95	3	-				
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	
	)	5	5/13/19		7.00	10.01	7.07	10.09			
	1	6	5   13   19		7.00	10-01	~	_			
Turbidity			3 months	Std Val	<u>BLANK</u> <0.1	LOW 1-10	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	3	n/a	3/12/19		0.05	6.58	0.03	6.61	W		
	-	n/a			_	_	-				

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

\* Delay times are ok?

\* Other equipment issues?

Team	R2RS	Samplers	FESIBELL, T. JARMAKANI, 3.	10-	Meters and Probes ID				
Session	ession 56 (Last Name, 1st Initial)	Mollson, T.		HQ40d: \ 210			00Q: 3		
Date	5/14/19				pH: 5	DO:	1	Salinity: 3	

	Streams	There		Salinity	Dissolved Oxygen		pН	Tunbiditus			People (within 100 ft)			
Location Name Sample ID	Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 8-8.3 85-105 normal			Turbidity (NTU)	131 TO 151	water	beach	camp	
Napili Bay RNS190514	NA	8:15	26-1	34,9	6.82	101.8	8-18	2-21	2.46	249	3	5	NA	
Pohaku RPO190514	No	8:45	2507	34.0	6.90	1023	8,20	6-28	7.18	7.48	2	.4	NA	
Kaanapali Sh RKS190514	_	9:02	26-4	35.7	6-79	102.5	8.17	5-16	5.28	5.11	le	7	NA	
Canoe Beach RCB190514	_	9:22	26.1	34.7	6.83	102.1	8.19	6.51	7.47	7.35	0	Z	NA	
Wahikuli RWA190514	_	9:42	24.5	34.6	4.82	102.5	8.22	17.4	17.4	169	0	0		

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

WMDY, WITH CHOOPY STEFSURF RNS-SPIRMKELING. RWA-GTRONG WAVES.

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.60	57.1	515
Pre-sampling	0.07	6.68	57.6	524
Post-sampling	0.03	6.64	57.7	575

CHAIN OF CUS	STODY INFORMATION	ON G	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	LLHS	Cmaxwell
Bacteria		-	-

Signature (Team Lead): Printed Name: Partierie Maxwel Cotherine Maxwell

Team R2RS	Samplers Freibug, T., Jarmakani, B., Morgan	n,T.
Session 56	(Last Name, 1st Initial)	
Date 5/14/19		

Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Napili Bay	0		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Pohaku	U		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Kaanapali Sh	Ø		9:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Canoe Beach			9:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Wahikuli	Ø		9:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
	Napili Bay Pohaku  Kaanapali Sh  Canoe Beach	Napili Bay  Pohaku  Kaanapali Sh  Canoe Beach	Napili Bay  Pohaku  Kaanapali Sh  Canoe Beach	Napili Bay  Pohaku  Raanapali Sh  Canoe Beach  Webliculi	Napili Bay	Napili Bay   Bay

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:
Cortain Maxwell	Cotherine Maxwell

Team	Polanui	Samplers	K. Horris	Meters and Pro			
Session	56	(Last Name, 1st Initial)	D. Daylor	HQ40d:		2100Q:	3
Date	5/15/2019		J. Maxwell	pH: 5	DO:	1	Salinity: 3

	Camanana	Time (of collection)		Salinity	Dissolved	l Oxygen	-77	Turbidity (NTU)			People (within 100 ft)			
Location Name Sample ID 505 Front St PFF190515	Streams Flowing (Y/N)		Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal				water	beach	camp	
	У							2.02	2.00	1.89	2	3	0	
Lindsey Hale PLH190515	N	8:35	26.0	35,3	6.00	90.0	8.08	1.80	1.51	1.41	6	15	0	
Lahaina Town PLT190515	-	8:53	26.2	35.1	6.50	97.8	8.14	2.02	1.80	2.17	2	34	0	
Olowalu Pier OSF190515	-	9:24	26.4	35.9	6.71	101.6	8.13	3.86	4.75	4.87	0	0	2	

NOTES	AND	COMMENTS	(trends,	equipment	problems,	errors,	concerns).
		fal a farm if - an			and the same		

minus low tide

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.03	6.60	57.1	575
Pre-sampling	0.25	6.69	57.7	576
Post-sampling	0,04	6.67	57.8	575

CHAIN OF CUS	STODY INFORMATION	ON		
	# of samples	Relinquished to	Contact	
Sediment				
Nutrients	4	LL145	B. BANKER	
Bacteria	_			

Signature (Team Lead): Printed Name:

BUSE H. BANKER

Team	Polanui	Samplers	ITARRIS, K	
Session	56	(Last Name, 1st Initial)	BATLER, R BAXWELL, J	
Date	5/15/2019		7 353-22 22 27 2	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF190515-N-1	505 Front St			08:14	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH190515-N-1	Lindsey Hale			08:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT190515-N-1	Lahaina Town			08:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OSF190515-N-1	Olowalu Pier			09:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments					locity and		
					500 ml		
					500 ml		
					500 ml		
			0		500 ml		

Signature (Team Lead):	Printed Name:	
B4.B	BRUCE H.BANKER	

Team	Olowalu	Samplers	BRUCK BANKER	Meters and Probes ID				
Session	56	(Last Name, 1st Initial)	JAMES STRICKLAND	HQ40d: /		2100Q	3 .	
Date	5/16/2019			pH: 5	DO:	1	Salinity: 3	

	Streams	Time		Salinity		l Oxygen	200		Tunkidia		Peop	le (within 1	00 ft)
Location Name Sample ID	tion Name Flowing (of Temp (ppt)	(mg/L)	(%) 85-105 normal	8-8.3 normal	Turbidity (NTU)			water	beach	camp			
Martin Hale OPM190516		07:20	25.8	35.9	5.85	87.8	80.8	1.36	1.24	1.36	Ø	Ø	8
Camp Olowalu OCO190516	_	07:40	26.2	35.5	6.54	98.6	8.07	10.6	12.2	10.7	de	X	b
Ukumehame OUB190516	-	07.55	26.1	35.9	6.72	1015	8.15	5.87	5.94	6.06	25	2	&
Papalaua Beach OPB190516	_	08:90	261	36.0	7.07	106:7	068	3.09	3.24	3.31	Ø	Ø	Ø
Papulua Pali OPP190516	_	08:40	96.9	75.9	6.94	104-9	8,30	1.61	1,90	2-00	Ø	Ø	d
				,,,,		0		1-01		2000	7		8

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

OPM- VERY LOW TIDE

TURBIDITY VER				
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.60	57.1	575
Pre-sampling	0.03	6.59	57.6	576
Post-sampling	0.03	6.58	57.8	575

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	_						
Nutrients	5	LLHS	B. BANKER				
Bacteria	_						

Signature (Team Lead): Printed Name:

BH-BM BANKER

Team	Olowalu	Samplers	BANKER, B
Session	56	(Last Name, 1st Initial)	STRICK LAND, J
Date	5/16/2019		

artin Hale						
artin Hale						
			07:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
np Olowalu	Ø		07:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
cumehame			07:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
alaua Beach			08:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
pulua Pali	Q.		08:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
-	cumehame alaua Beach	cumehame alaua Beach	cumehame alaua Beach	cumehame	cumehame	bottles; 0.2 um disposable filters  Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters  Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters  Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters  Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters  Pulua Pali  Washed, rinsed syringes; acid washed

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:
B14.BM	BRUCE H. BANKER

Team R2RN	Samplers (Last Name, STOICK VANO, J	Meters and Probes ID
Session 56	(Last Name, STAICK VANO, )  1st Initial) HEHENAUN, C	HQ40d: / 2100Q: 3
Date 5/17/19	HEBEITHU, C	pH: 5 DO: 1 Salinity: 3

Location Name Sample ID	Streams Time			Salinity	Dissolved Oxygen			7D		People (within 100 ft)			
	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 RHL190517	Y	07:53	23.9	23.0	7.14	96.3	8.19	424	4.96	4.86	6	7	Or
Oneloa Bay RON190517	Vilena	08:39	25.4	35.5	6.97	102.8	8.23	0.33	0.36	0.32	2	is	\$
Kapalua Bay RFS190517	_	09:08	6.26	33.1	6.99	1093	8.13	1.75	2.16	1.77	19	41	8
Ka'opala Bay RKO190517	N	9:30	25.3	34.4	6.90	103.0	8.16	6.75	6.56	6.68	Ø	3	05
Kahana Village RKV190517	/ HC.H.	10:08	26.1	34.4	6.46	96.6	8.16	5.45	5.50	6.15	1	5	0

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

RHL- LICHT RAIN, MEANY STEAM FLOW

TURBIDITY VER	IFICATION		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Blank (must be <0.10)	Low	Med	High
Standard	0.03	6.60	57.1	575
Pre-sampling	0.05	6.61	57.5	5,76
Post-sampling	0.03	6.61	57.6	575

CHAIN OF CUS	STODY INFORMATION	NC	
3	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	LLHS	B. BANKER
Bacteria		-	-

Signature (Team Lead): Printed Name:

BUCK H. BANKER

Team	R2RN	Samplers	BANKER, B
Session	56	(Last Name, 1st Initial)	STRICKLAND, J HIEHEMANN, C
Date	5/17/19		(7)(1)() (1)(1)

Sample ID	Sample ID Location Name		Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL190517-N-1	Honolua Bay	<b>P</b>		07:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON190517-N-1	Oneloa Bay			08:39	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS190517-N-1	Kapalua Bay			09:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO190517-N-1	Ka'opala Bay			09:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV190517-N-1	Kahana Village			10:08	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:	
BH.BM	BRUCE H. BANKER	