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



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

48 Strickland, J + Maxwell, C 11/26/18 940 am Strickland, J + Maxwell, C 11/30/18 10:50 am

QA/QC Check	Inst#	Probe #	Last Cal Date			tE: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST Z	n/a	n/a	Std Val	<u>nist</u> 24.9 °C	<u>NIST</u> 24.5 _{°C}	<u>NIST</u> 23,3 °C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	2,	n/a		24.8		23,3				
	Z	3	n/a			24.3					
Salinity			3 months	Std Val	Tap water	Salin Std i 리고니date 35 ppt	Tap water ⇔	Salin Std 239/date 32.6ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	2	2,	11/26/18		0.04	34.9	0.04	33.0			
	2	3	11/26/18		0.04	34.9					
Dissolved Oxygen	3		1 year	Std Val	10	0%	10	0%	± 5 %		
	2	2	8/6/18		99	.3%	001	.3%			
	2	1	412/18		99	.27/8					
рН	12		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	
	7	6	11 56 18		7.00	10.01	7.04	10.1			
	Z	5	11/26/18		7.00	10.01					
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 5.46 _{NTU}	BLANK <0.1	LOW 1-10 5.46 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	10 8 18		0.05	5.48	0.06	5.36			
		n/a									

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	R2RS		plers Jarmakani, B; FRGBERG, T. Abromaitis A			Meters and Probes ID					
Session	48	(Last Name, 1st Initial)	Maxwell, C.	HQ40d: 2		2100Q:	1				
Date	11/27/2018			pH: 6	DO: 2	2	Salinity:	2			

					Dissolved	Oxygen			Turbidity		Peopl	e (within 10	0 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН		(NTU)		water	beach	camp
Napili Bay RNS181127	N	0814	25.8	35,0	6.76	100.6	8.20	1.14	1.10	0.96	2	6	0
Pohaku RPO181127	N	0843	25,2	34.4	6.79	99.8	8.17	47.5	48.3	48.2	15 outing	L	Ð
Kaanapali Sh RKS181127	not some	0903	26.2	34.9	6.70	100.3	8,23	2.72	3.04	3.09	Surfre	8	0
Canoe Beach RCB181127	hot sure	0927	26.4	34.9	6.64	99.8	8.22	4.88	4.76	4.81	0	20+2	0
Wahikuli RWA181127	not	0944	26.3	34.9	6.71	100.7	8.24	2.32	2.22	2.43	2	O	0

RNS - Strong waves breaking @ show high time.
Clur Sunny hight winds, low by clouds

RPO - High surf almost to highway, brown nate close

RPO - to shore. Cleur, no wind, clouds ore Mobilia

RKS- a little brownish water down the hard to push RKS- a little brownish water down the hard to push RKS. RPO- New BD syranges + Disposable 0.24 tilles RKS, RCB, RWA - Used Mediat syrings - used disposable 0.24 filters

RWA - water flat, no wind

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	5.46	57.2	647
Pre-sampling	0.06	5.53	57.9	650
Post-sampling	0.05	5.49	57.9	645

CHAIN OF CUS	STODY INFORMATION	JN	· ·
	# of samples	Relinquished to	Contact
Sediment	0		CMaxwell
Nutrients	5	LLHS	C Maxwell
Bacteria	0		CM axwell

Signature (Team Lead):	Printed Name:	100
Cartuin Max well	Catherine Maxwell	

Team	R2RS	Samplers	Jarmalcani, B, Freiberg, T., Abromaitis, A,
Session	48	(Last Name, 1st Initial)	Maxwell, C.
Date	11/27/2018		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS181127-N-1	Napili Bay			8:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO181127-N-1	Pohaku	0/		8:43	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS181127-N-1	Kaanapali Sh	D⁄		9:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB181127-N-1	Canoe Beach	□ 2⁄		9:27	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA181127-N-1	Wahikuli	₽		9:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ŧ							
Sediments							
RNS181127-S-1	Napili Bay				500 ml		
RPO181127-S-1	Pohaku				500 ml		
RKS181127-S-1	Kaanapali Sh				500 ml		
RCB181127-S-1	Canoe Beach				500 ml		
RWA181127-S-1	Wahikuli				500 ml		

Signature (Team Lead):	Printed Name:	
Catherin Mary	seel Catherine Maxwell	AND THE RESERVE

Team	Polanui	Samplers	Maxwell J	Meters and Probes ID	
Session	48	(Last Name, 1st Initial)	Bayley, R	HQ40d: Z	2100Q:
Date	11/28/2018		Harris, K	pH: 6 DO:	Z

					Dissolved	Oxygen			Turbidity		Peopl	e (within 10	0 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН		(NTU)		water	beach	camp
505 Front St PFF181128	У	8:12	25.6	3, 3,8 KH	6,24	92.0	8.13	5.38	5.42	5.48	D	9	D
Lindsey Hale PLH181128	N	8:35	25.3	34.5	6.49	95.6	8.14	7.16	7,32	7.72	0	d	1
Lahaina Town PLT181128		8:55	25.5	34.5	5.89	37,0	8.11	20.8	19.5	20.1	۵	1	0
Olowalu Pier OSF181128		9:25	25.0	34.8	6.8D	99.8	8.16	2.77	2.57	2.49	D	5	

PFF Stream flowing steadily

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	5.46	57.Z	647
Pre-sampling	0.09	5.45	57.8	647
Post-sampling	0.09	5.47	57.9	649

Salinity: 2

CHAIN OF CUS	STODY INFORMATION	JN	
	# of samples	Relinquished to	Contact
Sediment			
Nutrients	4	LH5	D. Reed
Bacteria	ı		,,

Signature (Team Lead): Printed Name:

A Sun Ken Dana Reed

Team	Polanui	Samplers	Maxwell, J.
Session	48	(Last Name, 1st Initial)	Bayley, R.
Date	11/28/2018		Harris, K.

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF181128-N-1	505 Front St	文		8: IZ	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH181128-N-1	Lindsey Hale	x√		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT181128-N-1	Lahaina Town	A		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OSF181128-N-1	Olowalu Pier	X		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ě.							
Sediments							
					500 ml	i i	
					500 ml		
					500 ml		
					500 ml		
					500 ml		

	ie:
Ahen Dana	Reed

Team	Olowalu	Samplers	Ranieri, Lindsay	 Meters and Pro	bes ID			
Session	48	(Last Name, 1st Initial)	Otomo, Lagne	HQ40d: 2		2100Q:	l	
Date	11/29/2018		Strickland, James	рН: 6	DO:	2	Salinity:	2

					Dissolved	Oxygen		eu-	Turbidity		Peop	le (within 10	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН		(NTU)		water	beach	camp
Martin Hale OPM181129	N	7:15	24.4	34.7	5.42	78.8	8.07	1.60	1.93	2.02	0	0	0
Camp Olowalu OCO181129	N	7:32	24.9	34.9	6.47	95.0	90.15	1.22	1.03	1-10	2	ſ	0
Ukumehame OUB181129	N	7:48	24.9	34.8	6.28	92.2	8.17	7.40	7.65	7.46	0	O	0
Papalaua Beach OPB181129	N	8:00	26.3	35.0	6.45	95.4	8.18	3.85	3.88	3.CH	0	0	0
Papalaua Pali OPP181129	\mathcal{N}	8:13	25.7	34.8	10.59	18.2	8.21	6.51	6.37	6,94	0	0	0
ā													

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	5	5.46	57.2	647
Pre-sampling	0.06	5.46	57.7	650
Post-sampling	0.06	5.47	51.9	646

	# of samples	Relinquished to	Contact
Sediment			
Nutrients	5	LHS	7. Stricklan
Bacteria			0,

Signature (Team Lead): Printed Name:

Johns Strichland

Team	Olowalu	Samplers	Romiera, Lindson
Session	48	(Last Name, 1st Initial)	atomo, Lathe
Date	11/29/2018		Strickion, Jones

STITICAL TO THE									
Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments			
Martin Hale	Ø		7:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters				
Camp Olowalu	₪		7:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters				
Ukumehame	ď		7:48	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters				
Papalaua Beach	'		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters				
Papalaua Pali	IZ/		8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters				
				500 ml					
2				500 ml					
				500 ml					
				500 ml					
				500 ml					
	Martin Hale Camp Olowalu Ukumehame Papalaua Beach	Location Name Sample taken? Martin Hale Camp Olowalu Ukumehame Papalaua Beach Papalaua Pali	Location Name Sample taken? Storm sample? Martin Hale Camp Olowalu Ukumehame Papalaua Beach Papalaua Pali D D D D D D D D D D D D D	Location Name Sample taken? Storm sample? Time Martin Hale Image: Composition of taken? 7:45 Camp Olowalu Image: Composition of taken? 7:48 Ukumehame Image: Composition of taken? 7:48 Papalaua Beach Image: Composition of taken? 8:00 Papalaua Pali Image: Composition of taken? 8:13 Image: Composition of taken? Image: Composition of taken? 8:00 Image: Composition of taken? 8:00 8:13 Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Composition of taken? Image: Compos	Location Name Sample taken? Storm sample? Time Volume Martin Hale Image: Comp Olowalu to the composition of taken? Image: Comp Olowalu to the comp Olowalu to the comp Olowalu to the composition of taken? Image: Comp Olowalu to the comp Olowalu to the composition of taken? Image: Comp Olowalu to the comp Olowalu to	Martin Hale			

Signature (Team Lead):	Printed Name:
Jan 4/6	Jones Strickland
7.50	

C Team	R2RN	Samplers	Hutchings, L	Meters and	d Probes ID		
Session	48	(Last Name, 1st Initial)	Bonker, B Hehomenn, C	HQ40d:	2	2100Q:	1
Date	11/30/2018		Heramony	рН: (-	DO:	2	Salinity:

					Dissolved Oxygen			Turbidity		People (within 100 ft)			
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН	(NTU)		water	beach	camp	
Honolua Bay RHL181130	N	7:50 A	23.8	34,2	5.96	85.6	8.15	2.45	2.19	2.34	0	3	0
Oneloa Bay RON181130		8:40x	25.6	34.9	6.70	99,9	8.20	0.79	0.71	0.71	2	3	0
Kapalua Bay RFS181130		9:050	26.0	34.6	6.37	95.4	8.17	0.84	0.88	090	10	16	0
Ka'opala Bay RKO181130	N	9:300	25.6	34.1	5.95	88.6	8.14	4.20	4.25	3.87	# O	0	0
Kahana Village RKV181130	_	9:500	26.2	34.3	6.47	96.9	8.16	10.4	9,51	10.3	0	7	<u>م</u>
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TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	5.46	57.2	647
Pre-sampling	0.07	5.52	57.8	648
Post-sampling	8.06	5.56	58.0	645

	# of samples	Relinquished to	Contact
Sediment	0		CMaxwell
Nutrients	5	LLHS	CMaxwel
Bacteria	O		C Maxwel

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

Team	R2RN	Samplers	Hutchings, C	
Session	48	(Last Name, 1st Initial)	Bauker, B Hehemann, C	
Date	11/30/2018			

Sample ID	Location Name	Sample	Storm	Time	Volume	Protocol Notes	Comments
	Location Ivame	taken?	sample?	line	Volume	Fiotocorrotes	Comments
Nutrients							
RHL181130-N-1	Honolua Bay	B.		7:50am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON181130-N-1	Oneloa Bay	ď		8:40 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS181130-N-1	Kapalua Bay	Ū		9:05am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO181130-N-1	Ka'opala Bay	<u> </u>		9:30an	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV181130-N-1	Kahana Village	©/		9:50am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ě							
Sediments				A.			
RHL181130-S-1	Honolua Bay				500 ml		
RON181130-S-1	Oneloa Bay				500 ml		
RFS181130-S-1	Kapalua Bay				500 ml		
RKO181130-S-1	Ka'opala Bay				500 ml		
RKV181130-S-1	Kahana Village				500 ml		

Signature (Team Lead)) :	Printed Name:	
Calier M	arweel	Catherine Maxwell	28