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



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

62 Maxwell, C, Banker, B 9/16/19 10:00 am Banker, B, Maxwell, C 9/20/19 11:00 am

										4160(14 CSM	
QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes	QA:
Temperature	NIST Z	n/a	n/a	Std Val	<u>NIST</u> 21.7∘ <u>C</u>	<u>NIST</u> 21.3 <u>°C</u>	NIST 26.0 °C	<u>NIST</u> [©] C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	21	3	n/a	o C	21.4		2517				
	cm ZI	Z	n/a			21.2					
Salinity			3 months	Std Val	Tap water	Salin Std 10/22 date 35.0 ppt	Tap water	Salin Std io ZZ date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	6/24/19		0.05	35.1	0.05	34.9		Wed Hach solk std due to akpire 10/22 - no data for opening	
	1	Z	6/24/19		0.05	35.4				Charery	
Dissolved Oxygen	*		1 year Std Val		10	100% 100%			± 5 %		
	1	l	5 13 19		102.0		(02.8%				
	J	2	4 5/19		9	9.5					
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	
	ĺ	5	9/16/19		7.01	10.05	7.04	10.09			
	1	6	9/16/19		7.01	10.05					
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10	<u>+</u> 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	3	n/a	6/24/19		0.63	6.47	0.05	6.47			
		n/a									

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	R2RS	Samplers	FREIBERGIT.	MORGAN,T	Meters and Probes ID					
Session	62	(Last Name, 1st Initial)	JARMAKAN, B	1 16 '	HQ40d:	21000	Q: <i>3</i>			
Date	9/17/19		ABIZOMAITIS, A		рН: 5	DO: /	Salinity: 3			

	64			Salinity	Dissolved	Oxygen			Tuubiditu		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
Napili Bay RNS190917	NA	8:15	27.2	35.3	6.62	102-1	8.11	3.25	3.07	3.26	4	te	Nt
Pohaku RPO190917	N0	6:35	27.6	35.5	6.54	101.5	8.14	8.48	8.65	8.80	١	N	NA
Kaanapali Sh RKS190917	_	8:56	28.0	36.1	6.50	101.7	8-15	2.05	2.45	2.68	N	4	NA
Canoe Beach RCB190917	-	9:85	28.2	3 5.6	6.57	103.1	8.20	1.46	1.65	1.53	6	8	NA
Wahikuli RWA190917	~	9:35	28.2	35.3	6.58	103.1	8.21	1-5C	1.62	1.63	0	0	NA
									60-44 (10-14-14-14-14-14-14-14-14-14-14-14-14-14-				

NOTES AND COMMENTS (rends, equipment problems, errors, concern	ıs).
Use the back of the form if need	ed	

RAS-CALM SMAIL/2010 WAVES.

RPO-MOML SHORE BREAK

ELCS-MORE SAND ON BEACH THAN USUAC. 304

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.03	6,36	56.8	585
Pre-sampling	0.05	6-41	56.9	585
Post-sampling	0.03	6.44	56.9	585

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

Signature (Team Lead): **Printed Name:** Latherine Maxwell

Team	R2RS	Samplers	Freiberg, T.	Morgan, T
Session	62	(Last Name, 1st Initial)	Jarmakani, B	S
Date	9/17/19		Abromeitis, A	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RNS190917-N-1	Napili Bay	<u> </u>		8:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO190917-N-1	Pohaku			8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS190917-N-1	Kaanapali Sh	, U		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB190917-N-1	Canoe Beach	Ø		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA190917-N-1	Wahikuli	₽		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
					•		
ediments							

Sediments				
			500 ml	

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

Team	Polanui	Samplers	Bayly, B.	Meters and Probes ID	
Session	62	(Last Name, 1st Initial)	maxwell, I.	HQ40d:	2100Q: 3
Date	09/18/2019		Tyler, L.	pH: 5 DO:	Salinity: 3

	Streams	Time		Salinity	Dissolved	l Oxygen	pН		Turbidity		Peopl	le (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	8-8.3 normal		(NTU)		water	beach	camp
505 Front St PFF190918	У	8:15	28.2	35.5	6.46	101.0	8.08	4.50	4.54	4.91	8	0	0
Lindsey Hale PLH190918	NX	\$:45	27.8	35.8	6.40	99.7	8.11	24.5	2514	24,9	Ö	8	6
Lahaina Town PLT190918	N/A	9:05	28.1	35,5	5.90	92.2	8,07	11.5	11.5	11.8	0	2	D
Olowalu Pier OSF190918	WIA	9:37	28.4	36.4	7.17	113.1	8,18	1.27	1.57	1.40	0	0	0

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)

STEADY FLOW OF STIFEAM 505 FRONTST (REGULAN) * PLH - Culvert Glocked by Send

5% CLOUD COVERAGE

No Winds

OSF- weres (0.5') passing over reef ble of
high fide

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.03	6.36	56.8	585
Pre-sampling	0.05	6.41	56,9	784
Post-sampling	0,03	6.47	57.2	534

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	1		
Nutrients	3	445	BH BANKER
Bacteria	T3 Wild Hills Common Co		

Signature (Team Lead):	Printed Name:	
BH-BC	BALICK H- BALKER	C. C

Team	Polanui	Samplers	BAYLY, R
Session	62	(Last Name, 1st Initial)	MAXWELL, J.
Date	09/18/2019		TYLER, L

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
PFF190918-N-1	505 Front St			08:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH190918-N-1	Lindsey Hale	9		08:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT190918-N-1	Lahaina Town	2		09:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
					* 20 00		
× 11							
Sediments		T		T			P
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:
pll-pa	Bruck H. BANKER

Team	Olowalu	Samplers	GUND, K	Meters and Probes ID		
Session	62	(Last Name, 1st Initial)	RANIERI, L	HQ40d: (2100Q:	3
Date	09/19/2019			pH: 5 DO:	/ Sa	llinity: 3

	Streams	Time		Salinity	Dissolved	Oxygen	pН	Tuukiditu		People (within 100 ft)			
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal		Turbidity (NTU)		water	beach	camp
Martin Hale OPM190919	N	7:16	27.5	36.3	6.11	94.3	8.07	10.4	10.4	11.3	0	0	0
Camp Olowalu OCO190919	2	7:35	28.6	36.3	6.29	99.6	8,09	9.51	9.60	10.1	3	5	D
Ukumehame OUB190919	2	7:52	27.7	36.3	6.55	102.1	8.12	22.4	24.0	22.8	10	0	0
Papalaua Beach OPB190919	8	8:08	28.1	36.3		101.7 100xx		4,55	5,09	5.09	0	\circ	\bigcirc
Papulua Pali OPP190919	N	8:22	20,3	36.2	6.54			8,60	3.69	8.83 9.49	K/G 	0	0

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)

HQ Sensore took a little time to connect Properly at site 4, it also thened off in the middle of 2 read.

Took 4th read Turbitity at site 5 after big truck passed during Read.

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.03	6.36	56.8	585
Pre-sampling	0.07	6.42	56.9	584
Post-sampling	0.05	6.46	57.2	584

	# 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:
BKBon	BRUCK H. BANKER

Team	Olowalu	Samplers	GUND, K
Session	62	(Last Name, 1st Initial)	RANIERI, L
Date	09/19/2019		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
						7017 M 700 TM 1017 M 10	
The state of the s							
Sediments							
					500 ml		
					500 ml		
and the second s				·	500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:
B4-Ber	BRUCK H BANKER

Team	R2RN	Samplers	Hatchings, L	Meters and Probes I	D	
Session	62	(Last Name, 1st Initial)	Berg L. J	HQ40d: /	2100Q:	3
Date	9/20/19		Hehe MANN, C	pH: 5 DO): <i>[</i>	Salinity: 3

	C4			Salinity	Dissolved	Oxygen	-11	T		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
Honolua Bay RHL190920	TOP	7.50A	26.8	36.0	6.63	92.5	8.14	0.8130.89	1.00	/,	6	0
Oneloa Bay RON190920	/	8130p	21.01	36.3	6.69	103.1	8.18	0.63 0.64	0.65	1	0	0
Kapalua Bay RFS190920		8:55A	27.2	36.0	6.52	107.0	8.13	3,16 2.33	2.60	3	6	\Diamond
Ka'opala Bay RKO190920	N	9:200	7.75	35,4	6.40	98.4	8.09	14.2 13.9	14.0	D	1	0
Kahana Village RKV190920		9-40A	27.2	35.9	6.46	99.6	8.09	31.2 29.0	30.1	0	2	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
RHL-TOOK 200 Solinity READING -35.
bandscape even in parking lot, s
mowing and blowing
Mowing and blowing MCRON - Took 2nd Selinity reading - 36.3 PRES - took 2nd Selinity reading 36.0
PRFS - took 2nd Salinity reading 36.0
LRKV-Deodidebnis in ocean.
Took 2nd Salinity reading 35.4
Ongoing sewall construction
SOUTH of site

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.36	56.8	585
Pre-sampling	0.08	6.43	57.1	584
Post-sampling	0:05	6.47	56.9	584

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	LLHS	CM axwell
Bacteria	-	-	•

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

Team	R2RN	Samplers	Hutchings, L
Session	62	(Last Name, 1st Initial)	Berg, L
Date	9/20/19		Strickland, J Heheman, C

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RHL190920-N-1	Honolua Bay	e		7:50am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON190920-N-1	Oneloa Bay	Ľ ď		8:30am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS190920-N-1	Kapalua Bay	02/		8:55 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO190920-N-1	Ka'opala Bay			9:20am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV190920-N-1	Kahana Village	Ø		9:40 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments	1	T	T	T			
					500 ml		
					500 ml		
					500 ml		

500 ml

Signature (Team Lead):	Printed Name:
O otherin Marwell	Catherine Maxwell