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



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

61 Banker, B. Maxwell, C. 08/26/2019 11:10 Banker, B. Maxwell, C. 08/30/19 10:45

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		OST: tion Value	Acceptable Range	Comments/ Notes	QA'
Temperature	NIST Z	n/a	n/a	Std Val	<u>NIST</u> 23.6 °C	<u>NIST</u> 23.2 °C	<u>NIST</u> 23.9°C C _M 20.5°C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	Z	Z	n/a		23,4		23.7				
	2	3	n/a			23.0					
Salinity			3 months	Std Val	Tap water	Salin Std 6/3/Adate 34.3 ppt	Tap water	Salin Std 6/3/9 date 34.3 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	Z	Z	6/24/19		0.05	34.6	0.04				
	Z	3	6/24/19		0.04	34.5	34.4				
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %		
	2	Z	8/5/19		98.8%		99.1%				
	Z	1	5 13 19		103.	27,					
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	
	Z	6	8/20/19		7.08 CM	10.06	7.03	10.09			
	Z	5	8/26/19		7.03	10.05					
Turbidity			3 months	Std Val	<u>BLANK</u> <0.1	LOW 1-10 5.76 _{NTU}	<u>BLANK</u> <0.1	LOW 1-10 5.76 _{NTU}	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
A Proposition of Comments	NBBF	n/a	7/5/19		0.05	5.72	0.06	5.78			
		n/a									

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	R2RS	Samplers	Ficiacoc, T. MAXWELL, C. ABROMATIS, A	Meters and	00		
Session	61	(Last Name, 1st Initial)		HQ40d: 2		2100Q: N BB	F
Date	8/27/19			pH: Ce	DO:	2 Salinity: 2	2

	Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity	2	Peop	le (within 10	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
Napili Bay RNS190827	N	814	28.0	34.3	6.41	99.2	8.15	3.51	3.48	3.62	5	13	0
Pohaku RPO190827	2	838	28.3	34.2	6.44	100.0	8-22	0.84	1.12	1.16	0	Z	0
Kaanapali Sh RKS190827		858	28.3	36.0	5.84	91.5	8.13	1,87	2.16	1.95	Z	4	6
Canoe Beach RCB190827		917	28.7	35.2	6.46	101-7	8.22	2.30	1.93	1-86	0	2.	0
Wahikuli RWA190827		9:38	28.6	34-8	6.41	100,3	8.25	2.31	2.14	2.04	0	3	0
										Andrew or an annual contract or an annual co			

NOTES AND C	OMMENTS (trends,	, equipment problems,	errors, concerns).
	he form if needed		

DNS-BLANK 75 HIGH.

Note: When 1st turned on TURTIFICITY moter had to
reset time/date into before

Operation

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	5.76	58.9	609
Pre-sampling	0.09	5.74	59.1	608
Post-sampling	0.06	5.81	59.4	607

# of samples Relinquished to										
2007 2000	" or samples	ixemiquished to	Contact							
Sediment	-	-	-							
Nutrients	5	LLHS	C Maxwell							
Bacteria	-	-	-							

Signature (Team Lead): Printed Name:

Cotherine Maxwell

Team	R2RS	Samplers	Freiberg, T., Maxwel, C., Abromeitis, A
Session	61	(Last Name, 1st Initial)	
Date	8/27/19		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RNS190827-N-1	Napili Bay	U U		814	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO190827-N-1	Pohaku	u		8 38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS190827-N-1	Kaanapali Sh			858	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB190827-N-1	Canoe Beach	U		917	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	8
RWA190827-N-1	Wahikuli	图	П	938	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
			25				

Sediments				
			500 ml	
			500 ml	
			500 ml	
	П		500 ml	

Signature (Team Lead):	Printed Name:	
Corhui Maxweel	Catherine Maxwell	

Team	Polanui	Samplers	Maxwell, I. Tyler, L. Bayly, R.	Meters and Prob	es ID	
Session	61	(Last Name, 1st Initial)	ຄ່າ	HQ40d: 2	21000	NBBF
Date	08/28/2019		Bayly 12.	рН: 6	DO: ح	Salinity: 2

	Streams	Time		Salinity (ppt) 30-35 normal	Dissolved	Oxygen	pН	Turbidity		Peop	le (within 10	00 ft)	
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable		(mg/L)	(%) 85-105 normal	8-8.3 normal		(NTU)		water	beach	camp
505 Front St PFF190828	7	2110	28.7		5.25	32.7	2.06	1.52	1.63	1.76	Ø	6	0
Lindsey Hale PLH190828	~	8:40	28.9	36.0	5.39	35.3	8.06	2.76	2,70	2.59	9	3	0
Lahaina Town PLT190828	NIA	9:05	29.2	35.6	5.57	38.5	8,09	2.13	2.27	2.32	9	BQ	0
Olowalu Pier OSF190828	NIA	9:25	29.6	36.3	6.36	102.1	8.15	1.73	2.22	2.19	O	3	0
							40-1000000 or 100000						

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)

Light Stream Flow (PFF)

LOW D.O. READINGS OSF-RECHECKED METER LOG

TURBIDITY VER				
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	5.76	58.9	609
Pre-sampling	0.06	5,78	59,0	608
Post-sampling	0,07	5.79	59.4	607

CHAIN OF CUS	STODY INFORMATI	ON	
	# of samples	Relinquished to	Contact
Sediment	_	-	
Nutrients	3	LLHS	BH.BANKER
Bacteria	UMANIA MININA MI	_	

Signature (Team Lead):	Printed Name:
BH-BM	BRUCK H-BHMERA

Team Polanui	Samplers	MAXWELL, J.	
Session 61	(Last Name, 1st Initial)	TYLIER, L.	
Date 08/28/2019		BAYLY, R.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF190828-N-1	505 Front St	a		08:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH190828-N-1	Lindsey Hale	e		08:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT190828-N-1	Lahaina Town	□		08:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		1000-000
ž.					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:
BKR	BRUCK H. BANKER

Team	Olowalu	Samplers	NOPONEN, R	Meters and Probes ID	
Session	61	(Last Name, 1st Initial)	GUND, K	HQ40d: 2	2100Q: NBBF
Date	08/29/2019		MILLER, T	pH: 6 DO:	Salinity: 2

	Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity		Peopl	e (within 10	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
Martin Hale OPM190829	N.	7:19	28.1	36.5	5.68	89.0	8.08	1.28	1.28	1.28	_		
Camp Olowalu OCO190829	NA	7:37	28.2	36.3	6.03	94.4	8.08	6.29	7.65	7.14	645	6	Ø
Ukumehame OUB190829	NA	7:54	28.3	36.5	6.34	99.8	8.124	23.2	24.3	21.3	12	6	
Papalaua Beach OPB190829	NA	8:10	28.7	36.5	6.41	101.4	8.16	3.66	5.16	5.43	Ø	18	Ø
Papulua Pali OPP190829	MA	8:26	28.9	36.5	6.39	101.4	8-14	3.39	4.70	4,47	Ø	3	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)

- FOLLOWED NET "+1P" PROCEDURG REPRATEDRY FOR BLANK STILL READ OUT OF RANGE
 BEST LEADING RECORDED.

 O Camp Claural. OCO190829 4th reading is 89 turbility
 testing done on side of road with traffic going by, my have
 caused vibration of car Also, I may not have had
 arrow on jar lined up and
 Papalaua Beach 5.12 4th reading tubidity.

TURBIDITY VER				
	Blank (must be <0.10)	Low	Med	High
Standard	0.07	5.76	58.9	609
Pre-sampling	0.12	5.75	59.6	609
Post-sampling	0.05	5.78	59.2	608

CHAIN OF CUS	STODY INFORMATION	ON	
	# 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:
BHBM	BRUKE BANKEN

Team	Olowalu	Samplers	NOPONEN, R
Session	61	(Last Name, 1st Initial)	GUND, K
Date	08/29/2019		MILLER 1

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
Control of the state of the sta				*			
				T			
The second secon						-	We the control of the
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:
BUBIN	BRUCE H. BANKAN

Team	R2RN	Samplers	Hutchings_L	Meters and Probe	es ID	
Session	61	(Last Name, 1st Initial)	Bonker 3 Itchemann, C	HQ40d: 2	2100	Q: NBBF
Date	8/30/19		The remotility C	рН: 6	DO: Z	Salinity: 2

	Stucomo	m.		Salinity	Dissolved	Oxygen	, II	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			water	beach	camp	
Honolua Bay RHL190830	N	F:45x	27.5	35.0	5.63	86.5	8.11	4.40	4.41	5.60	4	5	D
Oneloa Bay RON190830		8:30A	27.8	36.0	6.64	103.3	8.20	0,62	0.83	0.63	0	6	0
Kapalua Bay RFS190830		4:554	27.8	32.3	6.16	93,7	8.08	1.69	1,99	1.14	13	15	0
Ka'opala Bay RKO190830	N	9.20 x	28.Z	35.3	6.13	95.6	8.14	6,23	6.38	6,45	0	1	6
Kahana Village RKV190830	N	9:45	28.2	35.4	5.74	89.3	8.16	11.5	9.72	11.1	0	6	0
										ant the property and desired	0	0	0

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

12HL- 4 BOATS

RKV- Run off at Nearby Kahana Reef where sea wall
repair work orgaing (red-flowing into ocean)

TURBIDİTY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	5.76	58.9	609
Pre-sampling	0.08	5.78	59.3	608
Post-sampling	0.06	5.78	59.7	608

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	5	LLH5	BHBAKKA				
Bacteria	-	-	-				

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

Team	R2RN	Samplers	Banker, B, Hutchings, L, Hehrman, C
Session	61	(Last Name, 1st Initial)	
Date	8/30/19		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RHL190830-N-1	Honolua Bay			07:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON190830-N-1	Oneloa Bay	d		08:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS190830-N-1	Kapalua Bay	<u>u</u>		08:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO190830-N-1	Ka'opala Bay			09:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV190830-N-1	Kahana Village		0	09:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments				·			
		_	_			VIII. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	

Sediments									
			500 ml						
			500 ml						
			500 ml						
			500 ml						

Signature (Team Lead):	Printed Name:	
BH. Bor	BRUCK H-BANKER	