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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
46	Maxwell, C.	10/8/18	9:50am	Otomo, L., Maxwell, C.	10/12/18	11:00 am

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> 23.3 ∘C	<u>NIST</u> 23.0 °C	NIST 2 Z Z 2°C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	2	n/a		23, 2,		21,9				
	Z	3	n/a			22.8					
Salinity			3 months	Std Val	Tap water	Salin Std 8/28/18 date 32.6 ppt	Tap water	Salin Std Sali8 date Sz.6 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	ROWNING PRODUCTION
	Ż	Z	8/6/18		0.04	3z.8	0:04	32.7			
	2	3	8/6/18		0.04	32.8				7	
Dissolved Oxygen	P		1 year	Std Val	10	0%	10	0%	± 5 %		
	2	2	8/6/18		99.	6%	160	3%			
	Z	1	4/2/18		99.	6%					
pН	A STATE OF THE STA		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	
	2	6	10/8/18		7.00	10.01	7.04	10.10			
	Z	5	10 18 18		7.00	10.01					
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 5.46 NTU	<u>BLANK</u> <0.1	LOW 1-10 5.46 _{NTU}	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	İ	n/a	10 (8 18		0.05	5.46	0.13	5.46			
		n/a									

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	R2RS	Samplers	FIZE BERG,T	Abromaitis, A	Jarmakani, B	Meter	s and Pro	bes ID			
Session	46	(Last Name, 1st Initial)	Morgan, T			HQ40	d: Z		2100Q:	1	
Date	10/9/2018					pH:	6	DO:	2	Salinity:	2

					Dissolved	Oxygen			Turbidity		Peop	le (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 RNS181009	N	8:20	26.9	33.5	6.65	100.5	8.14	11.0	12.0	12.5	2	2	0
Pohaku RPO181009	\wedge	8:44	26.7	32.5	6.49	97.3	8.17	4.07	4.13	4.30	0	8	0
Kaanapali Sh RKS181009	A	9:05	26.9	34.0	6.60	99.9	8,20	2.97	3,48	3.15	8	15	0
Canoe Beach RCB181009	NA	9.25	27.5	33.6	6.59	101.2	8.21	9.39	9.45	10.2	0	0	0
Wahikuli RWA181009		9:42	27.7	32.7	6.62	100.9	8,24	3.14	3.45	3.29	0	2	0
*													

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

- RNS181009- Zin stagnant water in nearby streambed

- Batteries were replaced in turbidity probe - KS sharm ocen water flowing into canel greens/ brown water 1-2' high in canel.

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	5.46	57.2	647
Pre-sampling	0.06	5.49	57.7	647
Post-sampling	0.06	5.45	57.6	646

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	0	0,	J. Stricten
Nutrients	5	8 LHS	J. StrIL WO
Bacteria	0	0	Showe

Signature (Team Lead):	Printed Nam	ie:
am Stradun	James	Strickland
)	

Team R2RS	Samplers	Fizeiberg, Ti	Abromaitis, A	Jormakoni, B
Session 46	(Last Name, 1st Initial)	Morgon, T		, , , , , , ,
Date 10/9/2018				

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS181009-N-1	Napili Bay	td .		06:8	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO181009-N-1	Pohaku	A		9:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS181009-N-1	Kaanapali Sh	P		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB181009-N-1	Canoe Beach	4		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA181009-N-1	Wahikuli	심		9:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
¥							
ediments							
RNS181009-S-1	Napili Bay				500 ml		
RPO181009-S-1	Pohaku				500 ml	, 4	
RKS181009-S-1	Kaanapali Sh				500 ml		
RCB181009-S-1 Canoe Beach □ □ 500 ml							
RWA181009-S-1	Wahikuli				500 ml		

Signature (Team Lead):	Printed Name:	
Jone Stra	James James	Strickland

Team	Polanui	Samplers	Brown M	Meters and Probes ID	
Session	46	(Last Name, 1st Initial)	Harris K	HQ40d: 2	2100Q: /
Date	10/10/2018		Friekland J.	pH: 6 DO:	Salinity:

					Dissolved	l Oxygen			Turbidity		Peopl	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
505 Front St PFF181010	Y	8:18	27.1	33.9	6.48	97.7	8.11	14.9	15.5	15.0	0	9	۵
Lindsey Hale PLH181010	\sim	8:47	27.5	33.8	6.11	93.3	8.11	16.2	18.6	19.5	0	4	0
Lahaina Town PLT181010	N	9:09	27.5	34.0	6.04	92.4	8.10	5.8)	7.49	7.19	1	9	0
Olowalu Pier OSF181010	N	9:44	98.9	34.5	6.76	104.8	8.19	3.94	4.79	1.99			

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

Monk seal at 505 Front St park beach PFF stream stronger than usual 165F water not clear again

TURBIDITY VERIFICATION							
	Blank (must be <0.10)	Low	Med	High			
Standard	0.05	5.46	57. 2	647			
Pre-sampling	0.07	5.44	57.6	646			
Post-sampling	0.08	5.41	57.5	648			

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	0	0_0	J.Strickland
Nutrients	4 /	4/45	J. Stricklan
Bacteria	Ò	0	J. Stricklo

Signature (Team Lead):	Printed Name:	
Jan Styl	James James	Strcklon

Team	Polanui	Samplers	Brown M	
Session	46	(Last Name, 1st Initial)	Harris, K	
Date	10/10/2018		Strickland, J	

10/10/2010		211011	001010				
Sample ID	Location Name	Location Name Sample taken?		Time	Volume	Protocol Notes	Comments
Nutrients							
PFF181010-N-1	505 Front St	ь		8118	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH181010-N-1	Lindsey Hale	Ą		8:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT181010-N-1	Lahaina Town	Q		9:09	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OSF181010-N-1	OSF181010-N-1 Olowalu Pier 🗹 🗆 🤫 44 125		125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
					125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ė.							9
Sediments							
PFF181010-S-1	505 Front St				500 ml		
PLH181010-S-1	Lindsey Hale				500 ml		
PLT181010-S-1	Lahaina Town				500 ml		
OSF181010-S-1	Olowalu Pier				500 ml		
					500 ml		

Signature-(Team Lead):	Printed Name:	
In Struck	Jones	Strichland

Team Olowalu Samplers RANIERI, L	Meters and Probes ID						
Session	46	(Last Name, 1st Initial)	CIGNO L	HQ40d: 2		2100Q:	
Date	10/11/2018			рН: 6	DO:	2	Salinity: 2

					Dissolved	Oxygen		Turbidity		People	e (within 10	00 ft)	
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	рН		(NTU)		water	beach	camp
Martin Hale OPM181011	N	0714	27.0	34.6	6.28	95.7	8-11	17.0	18. l	18,1	D	0	0
Camp Olowalu OCO181011	N	0734	27.7	34,6	6.41	98.7	8.12	24.2	13.8	23.3	0	0	0
Ukumehame OUB181011	N	0750	27.5	34.6	6.49	99.8	8.17	6.94	6-82	6-41	20 Surfers	2	D
Papalaua Beach OPB181011	N	080	27.4	34.5	6.61	101-4	8.16	6.79	7.11	6-86	0	0	0
Papalaua Pali OPP181011	N	0812	21.5	34.5	6.57	[0].0	8.14	5.43	b.09	5.88	0	0	0
ă.													

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

-turbity samples being neused. only 2 were provided

Pre-sampling turbidity blank >0.10

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	.08	5.46	6.52	647
Pre-sampling	0.12	5.47	57.7	657
Post-sampling	0.19	5.43	57-6	650

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	C	0	1. Stricklan
Nutrients	5	& BLAS	J. Stricklar
Bacteria	U		1. Strickla

Signature (Team Lead):	Printed Name:
Charlet 1	Tomas Stricklond
Jan Sand	901115 81116 VIII

Team	Olowalu	Samplers	Renieri, L
Session	46	(Last Name, 1st Initial)	otomo, L
Date	10/11/2018		CRIFFOUL, M

		0 (0.1					
Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
OPM181011-N-1	Martin Hale	R		7:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO181011-N-1	Camp Olowalu	R		734	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OUB181011-N-1	Ukumehame	R		750	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPB181011-N-1	Papalaua Beach	Q		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP181011-N-1	Papalaua Pali	凼		8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
s.							
Sediments							
OPM181011-S-1	Martin Hale				500 ml		
OCO181011-S-1	Camp Olowalu				500 ml		
OUB181011-S-1	Ukumehame				500 ml		
OPB181011-S-1	Papalaua Beach				500 ml		
OPP181011-S-1	Papalaua Pali				500 ml		

Signature (Team Lead):	Printed Name:	
In Stan	Tone	Strickland
	(

Team	R2RN	Samplers	Huthings, L	Meters and Probes ID		
Session	46	(Last Name, 1st Initial)	BonkeyB	HQ40d: >	2100Q:	
Date	10/12/2018		Hehemonn, C	pH: 6 DO:	Salinity:	8

					Dissolved	Oxygen			Turbidity		Peop	le (within 10	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН	8/	(NTU)		water	beach	camp
Honolua Bay RHL181012	7	7:50A	26.5	32.1	6.44	94.D	8.21	3.58	3.18	3.50	J	0	0
Oneloa Bay RON181012	N	09:30	27.2	34.4	6-67	101.6	8,21	0.94	0.78	0,83	1	5	0
Kapalua Bay RFS181012	N	9.50	27.8	33.7	6.60	101.6	8.14	2.01	2.47	2.35	8	9	0
Ka'opala Bay RKO181012	N	9:30	27.3	33.8	6.47	98.8	8.14	17.3	17.6	18.2	0	0	5
Kahana Village RKV181012	N	9:550	27.8	33.6	6.46	99.3	8,15	41.5	48.6	50.9	Ö	6	0
8													

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

KAHANA VILLAGE- BROWN WATER

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard		5.46	57.2	CAT
Pre-sampling	0.07	5.52	57.7	646
Post-sampling	0.13	5.46	58.0	644

CHAIN OF CUS	STODY INFORMATI	ON	
	# of samples	Relinquished to	Contact
Sediment	0		Cmaxwell
Nutrients	5	LLHSSCM	CMaxwell
Bacteria	0		CMaxwell

Signature (Team Lead):	Printed Name:
Castrien Marwal	Catherine Maxwell

Team	R2RN	Samplers	Hutchings, L.
Session	46	(Last Name, 1st Initial)	Banker, B.
Date	10/12/2018		Hehemann, C.

		TTO THO THE	11110				
Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL181012-N-1	Honolua Bay	B.		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON181012-N-1	Oneloa Bay	Ū		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS181012-N-1	Kapalua Bay	<u>u</u>		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO181012-N-1	Ka'opala Bay			9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV181012-N-1	Kahana Village	即		9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
i,							
Sediments							
RHL181012-S-1	Honolua Bay				500 ml		
RON181012-S-1	Oneloa Bay				500 ml		
RFS181012-S-1	Kapalua Bay				500 ml		
RKO181012-S-1	Ka'opala Bay		П		500 ml		
RKV181012-S-1	Kahana Village				500 ml		

Signature (Team Lead):	Printed Name:	
Carker Maxwel	Catherine	Maxwell