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



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

81 M.Becson, G. Silver, J. Strickland 12/14/20 11:55 M.Buson, J. Strickland 12/17/20 10:45

QA/QC Check	Inst#	Probe #	Last Cal Date		PR Verificat	RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	n/a	Std Val	<u>NIST</u> 26.2 °C	<u>NIST</u> 26.3 °C	<u>NIST</u>	<u>NIST</u> 26.6°C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
Gs	21	2	n/a		26.0		V				
	21	3	n/a			26.		26.4			
Salinity			3 months	Std Val	Tap water	Salin Std Avg 24 date 35 ppt	Tap water	Salin Std Aug 24 date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	21	3	11/30/20		0.04	35.1	0.04	35.2			
	21	2	11/30/20		0.04	35.1					
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %		
	21	31	9/28/20		99.	1	97	1.9			
	21	2	9/8/20		(02.	0%				A. A	
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	
	21	6	11/30/20		7.02	9.97					
	21	5	11/30/20		7.00	9.97	7.02	9.98			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	11/30/20		0.08	5.69	0.09	5.70		LOW: 5.68	
	NBBF	n/a	11/30/20		0.07	5.79				LOW: 5.79	

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

* Delay times are ok? * Other equipment issues? Lab: PKL (Papakea Lab)

Team R2RS	Samplers	J. Strickland.	C. Gallagher	Meters and Pro	bes ID		
Session 81	(Last Name, 1st Initial)	G. Silver	0	HQ40d: \		2100Q:	1
Date 12/15/2020		J. Kranberg		pH: 5	DO:	ļ	Salinity: 3

				Salinity	Dissolved	l Oxygen	-11		Turbidity		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		(NTU)		water	beach	camp
Napili Bay RNS201215	N	8:16 am	25.3	35.1	6.65	98.7	8.08	1.06	1.61	1.46	Ø	l	Ø
Pohaku RPO201215	N	8:43	25.2	34.6	6.59	97.2	8.10	5,50	5.28	5.24	5	6	Ø
Kaanapali Shores RKS201215	N	9:03	25.4	35.0	6.58	97.7	8.10	2.95	Z90	2.63	5	9	Ø
Kahekili Beach Two RKT201215	N	9:25	25.9	34.4	6.57	98.0	8.11	2.25	2.50	2.77	GS 1	5	Ø
Canoe Beach RCB201215	N	9:50	25.9	34.4 GS 35.4	6.70	100.1	8.13	1.60	1.72	1.66	1	8	Ø
Wahikuli RWA201215	N	10:10	26.1	34.0	6.61	98.9	8.13	6.12	3.96	3.15	1	4	Ø

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

RNS-Small waves hear shore, sunny, pavement wet (recent rain)

RPO- Waves breaking looft out, over cast

RKS - Overcast, small waves, families on beach

RKT - Overcast, relatively flat ocean, people walking back& forth

RCB - Sunny, 1-1.5 ft waves, road maintenance next to beach

RWA- Smells like trash, shore break waves

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.08	5.68	57.9	608
Pre-sampling	0.08	5.91	58.0	608
Post-sampling	0.09	5.87	57.9	608

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	6	屬 PKL	G. Silver
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:	
GaceSm	Grace Silver	

Team	R2RS	Samplers	J. Strickland	C. Gallagher	
Session	81	(Last Name, 1st Initial)	G. Silver	- nogre	
Date	12/15/2020		J. Kranberg		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RNS201215-N-1	Napili Bay	ď		8:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO201215-N-1	Pohaku	8		8:43	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS201215-N-1	Kaanapali Sh	Þ		9:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT201215-N-1	Kahekili Beach Two	Ø		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB201215-N-1	Canoe Beach	V		9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA201215-N-1	Wahikuli	M		10:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments							
					500 ml		

□ □ 500 ml	
□ □ □ 500 ml	
□ □ 500 ml	
□ □ 500 ml	

Signature (Team Lead):	Printed Name:	
GraceSun	Grace Silver	

Team Polanui	Samplers	R Bayley, K. Gund, K. Harris	Meters and Probes ID				
Session 81	(Last Name, 1st Initial)	T (1.22 1/1 - 1	HQ40d:		2100Q:	1	
Date 12/16/2020		J Strickland	pH: 5	DO:	1	Salinity: 3	

	6			Salinity	Dissolved	Oxygen			T., .,b.!.4!4		Peop	le (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
505 Front St PFF201216	У	2:18	25.4	34.1	6.13	90.8	8.04	. 9.67	9.82	9.46	0	0	6
Lindsey Hale PLH201216	N	8:38	25.5	34.6	5.99	88.9	8.03	12.3	12.5	12.5	0	1	0
Lahaina Town PLT201216	_	8:53	25.9	34.7	5.60	83.6	8.02	9.76	9.16	9.82	0	٥	٥
Olowalu Pier OSF201216	- KLH	9:25	25.7	35.0	5.97	88.9	8.00	2.46	2.51	2.81	2	boats	۵
Camp Oluwalu OCO201216	_	9:36	25.7	35.0	6.06	90.6	8.06	1.16	1.31	1.16	0	3	0
Papalaua Pali OPP201216	_	9:58	26.6	35.0	6.67	101.0	8.11	11.6	11.3	11.7)	0	0

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

OSF Filming in progress. 2 jetskis in water + 2 guys holding them. 3 in boat or on shore.

of previous site. Large rock in water = 30 in (out in water). Reason for moving wat is the water was tossing rocks + hurting the volunteers

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.09	5.68	57.9	608
Pre-sampling	0.09	5.71	57.9	608
Post-sampling	0.08	5.65	58.2	609

	# of samples	Relinquished to	Contact	
Sediment				
Nutrients	(0	PKO	M. Belson	
Bacteria				

Signature (Team Lead):	Printed Name:	
MBeeson	Meredith Buson	

Team	Polanui	Samplers	套.	Bayley, R.	
Session	81	(Last Name, 1st Initial)		Gund, K.	
Date	12/16/2020			Hams, K. Strickland, J.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
PFF201216-N-1	505 Front St	Ø		8:18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH201216-N-1	Lindsey Hale	o o		8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT201216-N-1	Lahaina Town	Ø		8:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	_
OSF201216-N-1	Olowalu Pier	ď		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP201216-N-1	Papalaua Pali	Ø		9:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO201216-N-1	Camp Oluwalu	9		9:58	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments					
			500 ml		
			500 ml	-	-
			500 ml		a -
			500 ml		

Signature (Team Lead):	Printed Name:	
mBeeson	Meredith Becton	

Team R2RN	Samplers	Hutchings, L.	Meters and Probes ID	
Session 81	(Last Name, 1st Initial)	Beeson, M.	HQ40d:	2100Q: \
Date 12/17/2020		Berg, L.	pH: 5 DO:	Salinity: 3

				Salinity	Dissolved	Oxygen			Turbidity		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	7.58	(NTU) 8.82	M\$ 8.57	water	beach	camp
Honolua Bay RHL201217	N	8:05A	24.9	34.8	6AI	94.4	8.12	6.35	8.96	7.92	\Diamond	0	0
Oneloa Bay RON201217	N	9:45A	25.3	35.1	6.71	99.6	8.14	1.51	1.24	1.20	3	2	0
Kapalua Bay RFS201217	N	9:050	25.4	35.0	6.70	99.5	8.11	2.32	2.20	2.85	5	8:	0
Ka'opala Bay RKO201217	N	9:24	25.3	34.7	6.51	96.4	8.08	8.60	9.96	8.47	0	0	0
Kahana Village RKV201217	N	9:40	25.5	34.7	6,73	100.D	8.12	6.99	7.39	6.FD	0	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

Aurory RHL-50 and 50+: 8.58, 8.82, 8.57

PON: 4th turbidity: 1.08 NTU

PKO: water is pretty brown/murky
4th Twisty 7.90 / 9.02 / 8.48

TURBIDITY VER	IFICATION				
	Blank (must be <0.10)	Low	Med	High	
Standard	80.0	5.68	57.9	608	
Pre-sampling	0.67	5.73	57.9	609	
Post-sampling	0.09	5.70	58.1	609	

	# of samples	Relinquished to	Contact	
Sediment	-	-	.=	
Nutrients	5	PKL	M.Beeson	
Bacteria	-	×-	-	

Signature (Team Lead):	Printed Name:
mbeeson	Meredith Beeson

Team	R2RS	Samplers	Hutchings, L.	
Session	81	(Last Name, 1st Initial)	Beeson, M.	
Date	12/17/2020		Berg, L.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RHL201217-N-1	Honolua Bay			8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON201217-N-1	Oneloa Bay	d		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS201217-N-1	Kapalua Bay	ď		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO201217-N-1	Ka'opala Bay	□/		9:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV201217-N-1	Kahana Village	d		9:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments		T					
					500 ml		
					500 ml		
1					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	
mBuson	Meredith Beefor	