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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
88	M. Belson	5/17/21	2:33om	MBUSON	5/20/21	11:00

QA/QC Check	Inst#	Probe #	Last Cal Date			tE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	<u>NIST</u> 2 (e. 8 °C	NIST 24.7 °C	<u>NIST</u> 26.3°C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	1	3	7/8/21		26.6		25.9				
	1	2	7/8/21			26.6					
Salinity			3 months	Std Val	Tap water	Salin Std 9/25 date 35.0 ppt	Tap water	Salin Std 9 25 date 35.0 ppt	± 1 ppt		
	1	3	3/15/21		0.34	34.6	0.34	34.4			
	1	2	3/15/21		0.34	34.6	_	_			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	1	1	9/28/20		97.7	H	98.	8			
	1	2	9/28/20		100.	2	7	77			
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	
	1	5	5/17/21		7.00	9.96	7.03	10.02			
	1	Q	5/17/21		7.01	9.98	_	_			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	<u>BLANK</u> <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	3 15 21		0.06	5.68	0.07	5.78		* WW: 5.77 NTU	
	NBBF	n/a	3/15/21		0.06	5.72	_	_		* LOW: SITS NTU	

QA: * Are pre- and post within one week? * Delay times are ok?

* Other equipment issues?

Lab: KAL

Team	R2RS	Samplers	Beeron, M.	Meters and Probes ID	
Session	88	(Last Name, 1st Initial)	Freiburg, T.	HQ40d: \	2100Q:
Date	5/18/2021	rat rate any	Kranberg, J	pH: 5 DO:	Salinity: 3

	C4			Salinity	Dissolve	d Oxygen			Turbidity		People	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	8-8.3 normal	(NTU)			water	beach	camp
Napili Bay RNS210518	\mathcal{N}	8:17	24.3	34.4	6.79	98-6	8.14	1.72	1.58	1.58	Ø	1	ϕ
Pohaku RPO210518	Ν	8:42	24.7	31.6	6.62	The state of the s	8.15	1.52	1.02	1.50	Ø	6	ϕ
Kaanapali Sh RKS210518	N	9:05	24.3	34.5	6.80		8.13	2.04	2.28	2.09	A I	Ø	
Kahekili Beach Two RKT210518	N	9:28	24.8	34.8	6-59	96.8	4.14	2.24	2.08	2.09	1	İ	Ø
Canoe Beach RCB210518	N	10:03	25.4	33.2	6.98	102.8	8.18	0.61	0.72	0.72	ϕ	Ø	Ø
Wahikuli RWA210518	N	10:25	25.9	32.7	6.58		8.15	1.03	1.04	1.02	5	3	Ø

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

RXS - very clear RCB - still construction going on

RWA - Onshore 8-10kts, 0.5-1ft shorebreak, High fide, clear water

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	5.77	58.6	628
Pre-sampling	0.08	5.45	58.3	628
Post-sampling	0.07	5.48	58.5	627

CHAIN OF CUS	STODY INFORMATI	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	le	MA KAL	M. Busa
Bacteria	-	-	

printed name:

Mercidith Breson

Team	R2RS	Samplers	Beeson,M.	Signature (Team Lead):	Printed Name:
Session	88	1st Initial)	Freiberg. T.		
Date	5/18/2021		Kranberg, J.		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments		
utrients									
RNS210518-N-1	Napili Bay	ø		8:17	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RPO210518-N-1	Pohaku	Ø		8:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RKS210518-N-1	Kaanapali Sh	d		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RKT210518-N-1	Kahekili Beach Two	d		9:28	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RCB210518-N-1	Canoe Beach	ď		10:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RWA210518-N-1	Wahikuli	Ø		10:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			

Sediments				
			500 ml	
			500 ml	
			500 ml	14.
			500 ml	

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

Team	Polanui	Samplers	Sund, K. Beeson, M.	Meters and Probes	Meters and Probes ID						
Session	88	(Last Name, 1st Initial)	Beeson, M.	HQ40d: \	21000						
Date	5/19/2021			pH: 5 D	O: 1	Salinity: 3					

	Ct	Streams Time		Salinity	Dissolved	Oxygen	**		Turbidity		Peop	le (within 10	0 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		(NTU)	1.88 M	3 water	beach	camp
505 Front St PFF210519	7	8:12	24.4	33.5	6.06	87.6	8.03	2.18	1.82	2.28	ı	0	Ø
Lindsey Hale PLH210519	N	8:37	24.6	34.4	5.71	83.1	8.05	4.08	3.96	3.98	Ø	ϕ	Ø
Lahaina Town PLT210519	N	8:54	24.8	34.1	5.62	82.1	8.05	2.35	2.38	2.29	Ø	Ø	Ø
Olowalu-Rier MB	N	9:26	25.4	34.9	6.35	94.3	8,08	1.82	1.86	1.88	Ø	Ø	Ø
Papalaua Pali OPP210519	N	9:47	24.8	34.5	6.66	97.6	8.10	3,32	3.31	3,16	Ø	8	Ø

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

PFF: garage water outflow flowing in S shape - probably human-shaped

PLIT: little to no waves

PLT: icayakers further offshire (2 kayaks, ~6)

@ OLOWALN; WOMER IS VORY STILL

TURBIDITY VERI	FICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.07	5.77	58.6	628
Pre-sampling	0.09	5.68	58.3	629
Post-sampling	0.07	5.64	58.5	627

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	KAL	M. Belson
Bacteria	-	-	-

Signature (Team Lead): Printed Name:

Meredith Beeson

Team	Polanui	Samplers	Gunel, K.
Session	88	(Last Name, 1st Initial)	Preson, M.
Date	5/19/2021		

Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
505 Front St	ď		8:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Lindsey Hale	d		8:37	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Lahaina Town	र्ष		8:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Owalu Pier MB	d		a:26	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Papalaua Pali	ď		9:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
	505 Front St Lindsey Hale Lahaina Town Out Olowalu Pier MB	Lindsey Hale Lahaina Town Lahaina Town Curve Olowalu Pier MB	Sos Front St	Sos Front St	Sos Front St	Sos Front St Sample? 11me Volume Protocot Notes

Sediments				
			500 ml	
	140		500 ml	
			500 ml	
			500 ml	

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

Team	R2RN	Samplers	Beeson.M.	Berg. L.	Meters	and Pr	obes ID			
Session	88	(Last Name, 1st Initial)	1	Henemann, C.	HQ40d:	: 1		2100Q:	1	
Date	5/20/2021		Hutchings, L		pH:	5	DO: 1		Salinity:	3

	Streams	T:		Salinity	Dissolved	Oxygen	, U	100	T		Peop	le (within 10	00 ft)
Location Name Sample ID	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 RHL210520	N	8:01A	23.8	33.7	6.34	91.1	8.11	1.40	1.47	2,01	0	7	0
Oneloa Bay RON210520	N	8:360	24.6	34.8	6.80	99.5	8.15	151	.56	.56	1	0	6
Kapalua Bay RFS210520		9.00	24.1	34.2	6.44	94.5	801	1.60	0.91	1.00	\bigcap	16	0
Ka'opala Bay RKO210520	N	9:22	25.1	341.2	6.24	91.7	8.07	5.14	5.25	5.13	0	0	0
Kahana Village RKV210520	N	9:40	25.1	34.1	6.24	91.5	8.67	8.95	12.1	16-2	0	3	0
								A					

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.	TURBIDITY VER	RIFICATION				
		Blank (must be <0.10)	Low	Med	d High	
RHL- 4th turbidity 1.43	Standard	- 0.07 MB	5.77	58.	6 628	5
Raining	Pre-sampling	0.09	5.68	58.		1
RFS: construction work in parking lot, dune restration	Post-sampling	0.07	5.78	58.	4 62	7
	CHAIN OF CUST	ODY INFORMATI	ION			
1th hirhidity: 10.4		# of samples	Relinqui	ished to	Contact	
- KA - di 1 1 1 1 1 2 2	Sediment	-	-		-	
LKY-4m turbidity: 10.4 6th turbidity: 12.3	Nutrients	5	KAL		M. Belso-	~

Bacteria

but not flowing into water

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

Team	R2RS	Samplers	Belson, M.	Hehemann, C.
Session	88	(Last Name, 1st Initial)	cramer, S.	
Date	5/20/2021		Hutchings, L.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RHL210520-N-1	Honolua Bay			8:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON210520-N-1	Oneloa Bay			8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS210520-N-1	Kapalua Bay	Ø		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO210520-N-1	Ka'opala Bay	B		9:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV210520-N-1	Kahana Village	D/		9:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments								
					500 ml			
					500 ml			
	1000				500 ml			
V2					500 ml			

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