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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
7.子	M. Beeson, T. Strickland	9/28/20	9:00 MM	M. Beeson; G. Silver	10 1/50	10:15 AM

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST 3	n/a	n/a	Std Val	<u>NIST</u> 30.0 °C	NIST 28.9°C	<u>NIST</u> 30.6 °C	NIST	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	2	n/a		29.6		30.1			N157 EXP 6 11/21	
	7	3	n/a			78.5		_			
Salinity			3 months	Std Val	Tap water	Salin Std 08/24date 35.0 ppt	Tap water	Salin Std 8/124 date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	2	2	8/17/20		0.60	34.7	0.62	34.8			7
	7	3	8/17/20		0.59	34.8	_				
Dissolved Oxygen			_1 year	Std Val	100%		10	00%	± 5 %		
	2	2	918120		100	0.0	101,	8			
	2	Ţ	9/28/20		102.	1	_				
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	
	2	6	9/8/20		7.01	9.97	7.01	9.96			
	2	5	9/8/20		7.01	9.97		_			
Turbidity			3 months	Std Val	BLANK <0.1	<u>LOW 1-10</u> 5.57 NTU	<u>BLANK</u> <0.1	LOW 1-10 5-57 _{NTU}	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	8/17/20		0.06	5.56	0.08	5.65		5.57	
	NBB	Ç n/a	8/17/20		0.06	5.73	_			5.74	

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

Jess was here observing.

Team R2RS	Samplers	J. Strickland (J. Scott)	Meters and Probe	s ID
Session 77	(Last Name, 1st Initial)	M. Beeson G. Silver	HQ40d: 2	2100Q: 1
Date 9/29/2020			pH: 100	DO: 2 Salinity: 2

$\mathcal{F}_{\mathcal{F}}}}}}}}}}$	Streams Flowing (Y/N) Time (of collection)			Salinity	Dissolved	Oxygen	pН		TL: 4:4		People (within 100 ft)		
Location Name Sample ID			Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal		Turbidity (NTU)		water	beach	camp
Napili Bay RNS200929	N	8:13	26.7	33.5	6.71	1.01.1	8.10	3.52	3.29	3.58	O	1	O
Pohaku RPO200929	N	8:44	26.9	33.2	6.56	99	8.15	5.36	5.41	5.58	0	0	0
Kaanapali Sh RKS200929	N	9:07	26.9	34.8	6.48	98.5	8.12	3.03	3.13	2.90	O	0	0
Kahekili Beach Two RKT200929	N	9:29	27.4	34.9	6.66	102.3	8.18	1.41	1.47	1,32	0	2	0
Canoe Beach RCB200929	N	9:57	27.6	33.9	6.72	102,9	8.21	6.11	5.78	5.72	O	2	0
Wahikuli RWA200929	N	10:15	27.6	34.1	6.56	100.7	8.19	3.32	3.36	3.19	DIS JES	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
RNS-Looks like it rained recently (damp road)
1/2 - I ft waves (BNS)
>1/2th waves (RPO) Slight brown water, flat mare waves (RKS)
flat, no waves (held), said our is
flate no waves but rough shore break (RWA)
* weather: clear skys marka to makai

TURBIDITY VERIFICATION									
	Blank (must be <0.10)	Low	Med	High					
Standard	0.06	5.57	51.5	599					
Pre-sampling	0.07	5.66	57.3	600					
Post-sampling	0.08	5.61	57.4	599					

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment	-	-	-					
Nutrients	6	TMO	6. Silver					
Bacteria	-	-	-					

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

Team	R2RS	Samplers	J. Strickland	(J. Scott)	
Session	77	(Last Name, 1st Initial)	M. Beeson		
Date	9/29/2020		G. Silver		

Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Napili Bay	瓦		8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Pohaku	Q		8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Kaanapali Sh	Ø		9:07	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	_80
Kahekili Beach Two	B		9:29	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Canoe Beach	Ø		9:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Wahikuli			10:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
The state of the s	Napili Bay Pohaku Kaanapali Sh Kahekili Beach Two Canoe Beach	Napili Bay Pohaku Kaanapali Sh Kahekili Beach Two Canoe Beach	Napili Bay Pohaku Kaanapali Sh Kahekili Beach Two Canoe Beach Wabikuli	Napili Bay	Napili Bay	Napili Bay ∅: 13 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Pohaku ∅: 44 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Kaanapali Sh □ 9: 07 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Kahekili Beach Two □ 9: 29 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Canoe Beach □ 9: 57 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Wahikuli □ 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters

Sediments			
		500 ml	
9		500 ml	,
		500 ml	
		500 ml	

Signature (Team Lead):	Printed Name:	
Charce Stum	Grace Silver	

Team Polanui	Samplers	G.Silver R. Bayly	Meters and Pro	Meters and Probes ID				
Session 77	(Last Name, 1st Initial)	M.Beeson K. Gund	HQ40d: 2	2100	Q:			
Date 9/30/2020		(J.Scott)	рН: 6	DO: 2	Salinity: 7			

		Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity		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	10.00	(NTU)		water	beach	camp
	505 Front St PFF200930	Y	8:23	27.3	33.2	6.07	92.0	8.05	3.31	3.31	3.42	0	2	0
	Lindsey Hale PLH200930	N	8:44	27.6	34.4	5.61	86.1	8.07	13.5	125	13.2	0	l	0
	Lahaina Town PLT200930	N	8:50	27.6	34.6	3.JES	102	8.12	1.72	1.64	1.34	0	2	0
	Camp Oluwalu OCO200930	+ N JES	9:44	28.6	35	6.17	96.5	8.06	3.24	3.23	3.43	05	JES O	\bigcirc
	Papalaua Pali OPP200930	N	10:00	28.6	35.1	6.57	103	8.14	4.84	5.39	5.05	1	-OJES	0
-	Oluwalu Pier OSF 2009 30	N	9:29	28.1	35.1	6.42	99.8	8.02	4.19	3-04	4.93	5	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
PFF - 1/2 ft waves w/~ le surfers by har bor
PLH - Flat, no waves. turbid waters due
h line alticalimentation in Sance
PLT - flat, no waves. Very turbid waters at shore due to fine silt/sedimentation in sound deposit. (took fourth reading) of some flat, no waves. found 5 ppl + I dog on the water, took 4th reading on twidity.
at shore due to the siltiseathernaling)
in sound depositioned 5 pp 1 + 1 dog
in the water, took you reading on turbidity.
OCO - flat, no waves OPD - 1/24 waves to flat, several campers/cars at camp
OPID - 1/2" NAVES AT FLAT, SEVERAL COMPONS/CONS AT COMP

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.08	5.57	57.5	599
Pre-sampling	0.10	5.66	57.4	600
Post-sampling	0.09	5.59	57.5	598

	# of samples	Relinquished to	Contont
	# of samples	Kennquished to	Contact
Sediment	0		
Nutrients	6	TMO	G. Silver
Bacteria			

Signature (Team Lead):	Printed Name:
Creece Sun	Grace Silver

Team Polanui	Samplers	G. Silver	R. Bayly
Session 77	(Last Name, 1st Initial)	M. Beeson	K. Gund
Date 9/30/2020		(J. Scott)	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF200930-N-1	505 Front St	Ø		8:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH200930-N-1	Lindsey Hale	Ø		8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT200930-N-1	Lahaina Town	Q		8:59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO200930-N-1	Camp Oluwalu			9:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP200930-N-1	Papalaua Pali	Ø,		[0:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
08F200930-N-1	Oluwalu Pier	9	D	9:29	125ml	11 11	

Sediments				
			500 ml	
			500 ml	
		:	500 ml	
			500 ml	

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

Team R2RN	Samplers	Hutchings), L,	Meters and Pro	obes ID		
Session 77	(Last Name, 1st Initial)	Beeson, M		HQ40d: 2		2100Q:	1
Date 10/01/2020		Silver G.	C. Heheman	рН: 6	DO: 2)	Salinity: 2

	Strooms	Streams Time		Salinity	Dissolved	l Oxygen	"H		Turbidity		Peop	ole (within 100 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)		water	beach	camp
Honolua Bay RHL201001	7	8:00A	26.3	33.6	6.55	98.1	8.11	56.9	64.0	60.7	0	1000	0
Oneloa Bay RON201001	N	8:38	27.3	35.1	6.58	101.0	8.16	1.46	1.57	1.49	0	0	0
Kapalua Bay RFS201001	N	8:55	27.4	34.4	6.73	103.2	8.16	4.71	4.70	4.90	1	4	0
Ka'opala Bay RKO201001	N	9:20	26.8	34.2	6.55	99.2	8.08	9.33	9.15	9.20 GS 10.30	2	D	0
Kahana Village RKV201001	N	9:40	27.9	34.9	6.96	107.7	8.21	6.56	6.49 7.51 65	6.74	0	0	0

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

PHL: Big waves 4th reading for turbidity: 53.1 NTU

*Note: West n	Maui fire	by Ka	ipalua Air	port !	yesterday
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TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.09	5.57	57.5	599
Pre-sampling	0.07	5.54	57.4	600
Post-sampling	0.08	5.65	57.6	599

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-		
Nutrients	5	TMO	G. Silver
Bacteria	-	-	

Signature (Team Lead):	Printed Name:	
Crece Sw-	Grace Silver	

Team R2RS	Samplers	Hutchings, L.	Hehemann, C.	
Session 77	(Last Name, 1st Initial)	Beeson, M.		
Date 10/01/2020		Silver, G.		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
ntrients							
RHL201001-N-1	Honolua Bay			9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON201001-N-1	Oneloa Bay	Ø		8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS201001-N-1	Kapalua Bay	A		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO201001-N-1	Ka'opala Bay	Ø,		9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV201001-N-1	Kahana Village	A		9:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments							
					500 ml		

Sediments				
			500 ml	

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