

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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
78	M. Beeson, G. Silver	10/19/20	10:00	M. Beeson, G. Silver	10:35 10:22-20	10:35

QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value		POST: Verification Value		Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	n/a	Std Val	NIST	NIST	NIST	NIST	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
					29.6 °C	29.6 °C	29.7 °C	°C			
	1	3	n/a		29.0		29.0			Tried several times. Not within range of (±0.6°C)	
	2	2	n/a			29.0					
Salinity			3 months	Std Val	Tap water	Salin Std	Tap water	Salin Std	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
					Aug 24 date	35 ppt	Aug 24 date	35 ppt			
	1	3	9/17/20		0.61	34.7	0.64	35.0			
	2	2	8/17/20		0.62	34.9					
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %		
	1	1	9/28/20		97.8		98.6				
	2	2	9/8/20		102.3						
pH			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	10/19/20		7.01	9.96	7.02	9.97			
	2	6	10/19/20		7.01	9.97					
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
						NTU		5.74 NTU			
	NBBF	n/a	8/17/20		0.09	5.79	0.07	5.77		NTU = 5.74	
	1	n/a	8/17/20		0.09	5.60				NTU = 5.57	

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

Team	R2RS	Samplers (Last Name, 1st Initial)	James Strickland (Gallagher, Charmaine) Kranberg, Jamie	Meters and Probes ID		
Session	78			HQ40d: 1	2100Q: WBBF	
Date	10/20/2020			pH: 5	DO: 1	Salinity: 3

Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)			People (within 100 ft)		
					(mg/L)	(%) 85-105 normal					water	beach	camp
Napili Bay RNS201020	N	8:10	27.0	35.1	6.30	96.5	8.08	1.41	1.46	1.51	1	0	0
Pohaku RPO201020	N	8:51	27.3	35.0	6.25	96.1	8.11	4.79	4.82	4.99	0	0	0
Kaanapali Sh RKS201020	N	9:21	26.9	34.9	6.34	96.7	8.05	4.08	4.07	3.99	0	3	0
Kahekili Beach Two RKT201020	N	9:55	27.7	34.8	6.35	98.1	8.13	1.71	1.83	1.51	0	0	0
Canoe Beach RCB201020	N	10:15	27.7	35.0	6.59	101.9	8.17	1.53	1.61	1.49	3	2	0
Wahikuli RWA201020	N	10:40	27.9	34.9	6.41	99.5	8.17	3.62	3.59	3.78	0	0	0

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

RNS: 8: Calm, 1 Honu, 1 snorkeler, Clear

RPO: No people, Small wave action, Sunny

RKS: Two FISHING POLLS

RKT: Ebbing Tide / Surge Calm

RCB: Rolling waves, clear, Kicked up Sand

RWA:

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.09	5.74	58	584
Pre-sampling	0.09	5.78	58.5	588
Post-sampling	0.06	5.79	58.3	586

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	6	TMO	Strickland, J.
Bacteria	-	-	-

Signature (Team Lead):

M. Besson

Printed Name:

Meredith Besson

Team	R2RS	Samplers (Last Name, 1st Initial)	J. Strickland Gallagher, aka C. Kranberg, J.
Session	78		
Date	10/20/2020		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS201020-N-1	Napili Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO201020-N-1	Pohaku	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:51	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS201020-N-1	Kaanapali Sh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:21	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT201020-N-1	Kahekili Beach Two	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB201020-N-1	Canoe Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA201020-N-1	Wahikuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):

M Beeson

Printed Name:

Meredith Beeson

Team	Polanui	Samplers (Last Name, 1st Initial)	Bayly, R Gund, K Harris, K	Meters and Probes ID		
Session	78			HQ40d: 1	2100Q: NBBF	
Date	10/21/2020			pH: 5	DO: 1	Salinity: 3

Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)			People (within 100 ft)		
					(mg/L)	(%) 85-105 normal					water	beach	camp
505 Front St PFF201021	Y	8:15	27.0	33.8	6.31	95.7	8.08	4.29	4.44	4.95	0	0	0
Lindsey Hale PLH201021	N	8:36	26.9	34.9	6.30	96.2	8.08	11.9	11.9	11.2	0	1	0
Lahaina Town PLT201021	N	8:55	26.8	34.4	6.11	92.8	8.05	15.4	15.4	14.8	0	0	0
Camp Oluwalu OCO201021	N	9:24	27.7	35.0	6.05	93.6	8.05	2.97	2.81	2.91	0	0	0
Papalaua Pali OPP201021	N	9:39	27.9	35.0	6.24	96.7	8.09	4.43	4.66	4.46	0	0	0

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

Use the back of the form if needed.

PFF - stream flowing steadily
- super high tide (undermining
shore vines)

* No film on KCL

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.06	5.74	58	584
Pre-sampling	0.06	5.81	58.5	589
Post-sampling	0.07	5.77	58.5	586

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment			
Nutrients	5	TMO	Grace Silver
Bacteria			

Signature (Team Lead):

Grace Silver

Printed Name:

Grace Silver

Team	Polanui	Samplers (Last Name, 1st Initial) Bayly, R Gund, K Harris, K
Session	78	
Date	10/21/2020	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF201021-N-1	505 Front St	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH201021-N-1	Lindsey Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT201021-N-1	Lahaina Town	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO201021-N-1	Camp Oluwalu	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP201021-N-1	Papalaua Pali	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:39	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):

Grace Silver

Printed Name:

Grace Silver

Team	R2RN	Samplers (Last Name, 1st Initial)	M. Beeson J. Strickland G. Silver L. Hutchings	Meters and Probes ID		
Session	78			HQ40d: 1	2100Q: NBBF	
Date	10/22/2020			pH: 5	DO: 1	Salinity: 3

Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)			People (within 100 ft)		
					(mg/L)	(%) 85-105 normal					water	beach	camp
Honolua Bay RHL201022	N	8:00	25.4 3 6s	34.9	6.21	92.3	8.13	0.42	0.46	0.43 ^{qs} 0.36	2	0	0
Oneloa Bay RON201022	N	8:35	26.5	35.0	6.52	98.9	8.13	0.75	0.76 0.69	0.74	0	0	0
Kapalua Bay RFS201022	N	8:55	27.0	35.0	6.41	98.1	8.10	1.62	1.62	1.56	3	0	0
Ka'opala Bay RKO201022	N	9:15	26.9	34.7	5.91	89.9	8.04	8.47	8.58	8.40	0	0	0
Kahana Village RKV201022	N	9:30	27.3	34.5	6.14	93.9	8.03	9.29	9.85	9.07	0	1	0

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

RHL- water very clear, little wave action

RON- clear skies, shore break waves

RFS- water is very clear, small 1" fish in sampling area

RKO- Road construction

RKV- soapy looking foam on surface (picture taken)
fourth turb reading = 10.01

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.07	5.74	58	584
Pre-sampling	0.09	5.77	57.9	588
Post-sampling	0.07	5.77	58.4	580

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	TMO	Strickland, J.
Bacteria	-	-	-

Signature (Team Lead):

M. Beeson

Printed Name:

Meredith Beeson

Team	R2RS	Samplers (Last Name, 1st Initial)	Strickland, J. Silver, G. Beeson, M. Hutchings, L.
Session	78		
Date	10/22/2020		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL201022-N-1	Honolua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON201022-N-1	Oneloa Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS201022-N-1	Kapalua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO201022-N-1	Ka'opala Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV201022-N-1	Kahana Village	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):

MBeeson

Printed Name:

Meredith Beeson