

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

Session No:	Verifiers	(pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
120			14/10/23	2:00PM	E. JOHNSON J. ERWIN	4/13/23	12:23 2M
					L. YANNELL		

									L.	MARNELL	
QA/QC Check	Inst#	Probe	Last Cal Date			RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 30.3 <sub>°C</sub>	NIST 30.2 °C	NIST 28.7 ce	NIST 28.6°C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	4	4	8/17/23		30.0		38.58				
	3	3	8/17/23			29.8		28.5			
Salinity			3 months	Std Val	Tap water	Salin Std 11/26 date 35.0 ppt	Tap water	Salin Std 11/26 date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	4	4	4/10/23		0.67	35.6				*PRE-VER USED HACH SOLUTION	
	3	3	4/10/23			35.0	0.09	35.4		PRE-VER USED HACH SOCUTION STORM CALIBRATION 34.4 PPT	
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	4	4	8115123		100	0.5%	99	,0%			
	3	-	216123		100	0.6%					
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	
	4	6	4110123		7.00	10.01	6.98	9.95			
	3	7	4110123		7.00	10.01					
Turbidity	7		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	
	Ц	n/a	4/10/23		0,06	6.06	0.08	THE RESIDENCE OF THE PARTY.		Low Standard 6.06	
	1	n/a	4/10/23		0.05	5.26	_			Low Standard 5.23	

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

\* Delay times are ok?

\* Other equipment issues?



R2RS Team Samplers

Session

Date

120

4/11/2023

(Last Name,

1st Initial)

5. Bieser, m. Flord, T. Freibers

Meters and Probes ID HO2200: 4 2100Q: 4

pH: 6 DO: 4 Salinity: A 3 & X

	2007	т:	14	Salinity	Dissolved	Oxygen	11	T	Peopl	e (within 10	00 ft)
Location Name Sample ID	Freshwater 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
Napili Bay RNS230411	N	8:30	24.5	36.2	6.95	101.7	8.19	2.38 2.38 2.17	0	19	NA
Pohaku RPO230411	N	9:50	24.4	34.6	Ce.97	100.7	8,13	14.7 11.9 13.6	3	(3	NA
Kaanapali Shores RKS230411	1	9:10	24.6	35.8	6.88	101.1	8.16	2.64 3.13 3.59	4	12	NA
Kahekili Beach Two RKT230411	//	9:30	24.9	36,2	6.13	160.0	0.00	4.34 4.92 4.49	()	0	NA
Canoe Beach RCB230411	N	7:52	25.9	35,9	6.76		8.14	4.13 603 5.14	2	3	NA
Wahikuli RWA230411	N	10:10	25.6	35.0	6,68	99.4	8.16	0.84 0.76 0.78	1	3	WA

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

RNS-JUTI CLEHED UP RAMIBILG SOURS

12PD - MUILKY WATER, Big Swells 12165 - MUILICY. 4th read of turb: 4.20 DILT - SIMPLED AT NORTHS PUT PAST RELF.

RCB - Calmer 4TER, murky, 4th TURB = 5.35

PENA - CACM, LITTLE 16:0 VERY CLOSE TO SAMPLES

TURBIDITY VERIFICATION									
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)					
Standard	0.06	6.06	63.7	625					
Pre-sampling	0.08	6.10	62.8	627					
Post-sampling	0.07	6.10	63.3	627					

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment		-						
Nutrients	Ġ	OLP	Jess Erwin					
Bacteria		-	-					

Sites with potential for freshwater flow: Kaanapali Shores, Canoe Beach

Signature (Team Lead):

**Printed Name:** 

Jessica Erwin

Thurst Ka Wast Supple Collection Datasher

Team	R2RS	Samplers	S. Beiser, M. Floyd, T. Freiberg
Session	120	(Last Name, 1st Initial)	3,0000
Date	04/11/23		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS230411-N-1	Napili Bay	Ø		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO230411-N-1	Pohaku	A		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS230411-N-1	Kaanapali Sh	∀		9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT230411-N-1	Kahekili Beach Two	♥		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB230411-N-1	Canoe Beach	Ą		9:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA230411-N-1	Wahikuli	V		10:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml	10 mg - 10 mg	

Signature (Team Lead):	Printed Name:
Dess En	Jessica Erwin

The viscosis Ola - Sample Collection Data steer

Team	Polanui	Samplers		Meters and P	Meters and Probes ID			
Session	120	(Last Name, 1st Initial)	Horris, K	HQ2200: 4		2100Q: 4		
Date	4/12/2023	151 11111111	7741110	pH: 6	DO: 4	Salinity: 43	83	

		7777		Calleda.	Dissolved	Oxygen					Peopl	e (within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
505 Front St PFF230412	Y	8:14	24,7	33,9	6.00	87.3	8.04	0,87	0,91	0.81	0	5	0
Lindsey Hale PLH230412	N	8:41	24.9	34.9	6.10	89.5	_		2.41	2.40	)	3	0
Lahaina Town PLT230412	N	9.02	25.5	35,2	5.69	84.6	8.04	3,67	4.01	4.36	6	5	5
Camp Olowalu OCO230412	N	9:38	24.0	36.0	6.56	95.6	8.07	D, 80	0.85	0.87	۵	0	۵
Papalaua Pali OPP230412	N	10:01	24.3	35.6	6.92	101.2	8.11	2.37	2.69	3.04	٥	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed.
PFF 2 more readings of blank were .09.10 more reading of Med 6.29
See water from photos Programme 29
COLH & paddle boards
PLT super fine sediment agetated by paddle boarders + samples
paddle boarders + samples
4TH TUREIDITY READING = 5.00
* ISTREAD HAD ATTNY BIT LONGER
IN METER BEFORE "ROAD" -12
OPD 4th turbidity read 3.28
Sites with potential for freshwater flow: 505 Front St. is tighter than
Sites with potential for freshwater flow: 505 Front St. 18 Fighter Phan

TURBIDITY VERIFICATION									
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)					
Standard	0.06	6.06	63.7	625					
Pre-sampling	0.09	6.09	62.7E)	626					
Post-sampling	0.07	6.12	63.5	625					

CHAIN OF CUSTODY INFORMATION							
2	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	5	OLP	EMILYNSON				
Bacteria		_	-				

Signature (Team Lead):	Printed Name:
Emily July	EMILY JOHNSON

Team Polanui	Samplers	Curs K
Session 120	(Last Name, 1st Initial)	GIONDIK
Date 4/12/2023	2 12 22 23 23	HALKIS, ~

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
lutrients							
PFF230412-N-1	505 Front St	Ø		8:14	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH230412-N-1	Lindsey Hale	Ø		8:41	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT230412-N-1	Lahaina Town	र्ष		9:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO230412-N-1	Camp Olowalu	Ø		9:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP230412-N-1	Papalaua Pali			10:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name	e:	491
Enrily Jan	EMILY	ZOHNZON	

Meters and Probes ID Team R2RN Samplers (Last Name, 2100Q: 4 Session 120 HQ2200: 4 1st Initial) JOHNSON, E Salinity: 43 EX DO: 4 Date 04/13/23 pH: 6

	41 3 3 3			Calinity		Dissolved Oxygen			Peopl	People (within 100 ft)		
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)	water	beach	camp	
Honolua Bay RHL230413	N	8:100	23.6	34.9	6.66	95.7	8.09	20.0 20.9 18.3	Z	4	0	
Oneloa Bay RON230413	N	9:054	24.5	31,4	6.88	101.4	8.16	0.55 0.54	0	4	0	
Kapalua Bay RFS230413	N	9:300	24.8	35.1	7.05	103.7	8,14	1.73 4.24+156	, 25	50	0	
Ka'opala Bay RKO230413	N	10:05	24.3	35.7	6.80	99.6	8.10	8.11 845 55	# 0	0	0	
Kahana Village RKV230413	N	10:35	24.5	36.0	7.35	108.0	8.21	5.01 3.46 4.53 5.82 5.55		0	0	

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

Use the back of the form if needed.

RILL - Cloudy Sty Calm Conditions

4th INL twisidity - 225, deols inducted.

RON - Cloudy Sky, windy, high surf

Ath reading 0.54 at this location

2nd Sativity is 36.4-same

RFS - Crowded beach & Ocean partly cloudy

Tool ATh turbity course and way off.

RKO - 4th Turbit ty 8.45, 5th Reading 7.56

home wave Action, murky water, No Flow
home wave Action, murky water, No Flow
from Storm

RKV - Calm (little windy 4th 5th Reading taken

Pipe

Sites with potential for freshwater flow: Honolua Bay, Kahana Village

ADO is high!

TURBIDITY VERIFICATION									
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)					
Standard	0.06	6.06	63.7	625					
Pre-sampling	0.08	6.10	63.6	628					
Post-sampling	0.08	6.11	63.2	627					

	# of samples	Relinquished to	Contact
Sediment	-,		## To a land
Nutrients	5	OLP	EMIDI
Bacteria	-	- 16	-

Signature (Team Lead):	Printed Name:
Emily Johns	- EMILY JOHNSON
	Dollie due to forgetting filter

Last undated July 2021

Team	R2RN	Samplers	HUTCHINGS, L
Session	120	(Last Name, 1st Initial)	HEHE MANN, C
Date	04/13/23		JOHNSON, E

(1610) Ka Wai Oct - Sample Collection Datasheet

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL230413-N-1	Honolua Bay	12/		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON230413-N-1	Oneloa Bay	Q		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS230413-N-1	Kapalua Bay			9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO230413-N-1	Kaʻopala Bay	□ □	0	10:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	BUTTLE
RKV230413-N-1	Kahana Village	Ø		10:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments Sediments								
					500 ml			
					500 ml			
					500 ml		100	
	-			40000	500 ml			

Signature (Team Lead):	Printed Name:				
Signature (Team Lead):	EMILY JOHNSUN				