





Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
113	42 yannell, Meredith Beeson	11/7/22	10:55 am	M. Beeson, Y. St. Louis	11/10/22	10:45

QA/QC Check	Inst#	Probe	Last Cal Date			RE: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes Q
Temperature	NIST	n/a	NIST Exp. Date	Std Val	<u>NIST</u> 30.6 °C	<u>nist</u> 30.5 <sub>°C</sub>	<u>NIST</u> 30.7 <sub>℃</sub>	NIST - °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water
	4	4	8/17/23		30.6		30.6			
	4	3	8/17/23			30.3	STATE OF THE STATE	-		
Salinity			3 months	Std Val	Tap water	<u>Salin Std</u> S <u>114 11</u> date <u>34.0</u> ppt	Tap water	Salin Std 5 24 21date 34.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	4	4	9/5/22		\O.23	33.9	0.24	34.0		
	4	3	9/5/22	有事	0.23	34.2	_			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %	
	4	4	8/15/22		101.	6	100.	1		
	4	1	2/7/22		100.	1	_	_		
рН			3 weeks	Std Val	pH 7.00	рН 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	11/7/22		6.99 MB 7.01	9.96	6.94	9.98		-hed to calibrate traice be of temp issues
	4	7	11/7/22		7.01	9.99	_			
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
27	24	n/a	11/4/22		0.08	6.43	0.09	6.42		New meter \$100:6.43 N
	1	n/a	10/17/22		0.07	5,54	_	"		new meter \$1000:6.43 N \$ 1000: 5.72

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

\* Other equipment issues?

Lab: OLP

A Dia Sample Collection Datashee

Team	R2RS	Samplers	FLOYD, M	Kranberd.	7	Meters and P	robes ID		
Session	113	(Last Name, 1st Initial)	Bieser, 5	( vantory,	·	HQ2200: 4		2100Q: <b>1</b> 4	Ey
Date	11/08/2022					pH: 6	DO: 4	Salini	ty: 4

		TO:		Salinity	Dissolve	l Oxygen			m 1.11.		Peop	le (within 1	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 RNS221108	N	8:10am	25.7	35.6	6.68	99.1	8.15	153 Fx	0.93	234 0.89	8	11	Ø
Pohaku RPO221108	N	8.38	25.7	34.3	6.57	96.7	8.14	5.69	4.67	5.19	0	1	0
Kaanapali Shores RKS221108	N	9:00	25.7	35.7	6.58	97,9	8.16	1.75	1.69	2.07	2	2	0
Kahekili Beach Two RKT221108	N	9:22	26.1	36.0	6.55	98-3	8.17	1.81	1.57	-	12	15	Ø
Canoe Beach RCB221108	M	9:47	27.0	35.3	6.70	101.6	8.19	29.8	30.4	29.9	ı	Ø	O
Wahikuli RWA221108	N	10:05	26.9	35.1	6.51	98.5	8.18	1.46	1.74	1.29	Ø	Ø	Ø

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

RNS: -1/2 ft surf, shady, outgoing tide, slight trades
- Turbidity readings varied a lot - took 5 readings
21000 felt "tighter"; possibly something inside
RPO-SMELL SWELLS
Machine?

RPO-small swells

RKT-Offshore winds, = 2ft rolling swell shore break RCB-1-2 ft swells; very churned up by shore break

PWA - Sunny, rolling shore break

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

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.08	6.43	649	597
Pre-sampling	0.08	6.37	64.3	599
Post-sampling	80.0	6.38	64.8	595

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	6	DLP	liz Yannell
Bacteria			J

Signature (T	eam	Lead):	111
Ling	4	mi	W
	1		

**Printed Name:** 

Team	R2RS	Samplers	Floyd, M.
Session	113	(Last Name, 1st Initial)	Bieser, S.
Date	11/08/22		Kranberg, J.

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS221108-N-1	Napili Bay	9		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO221108-N-1 Pohaku		ď		8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	1.9
RKS221108-N-1	Kaanapali Sh	₽'		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT221108-N-1	Kahekili Beach Two	8		9:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB221108-N-1	Canoe Beach	□ ,		9:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA221108-N-1 Wahikuli				10:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	
	c dimenta sect		500 ml	
			500 ml	Described Filtre Al Mart Ma
	Cycles Section		500 ml	6 of moneto. Millionness at the Contract

Signature (Team Le	ad): //	Printed Nam	e:
2m	Imill	liz	lannell
			or The Market

Team Polanui Samplers (Last Name, Session 113 1st Initial) Date 11/09/2022

GUND, K SHARPE, M Meters and Probes ID

HQ2200: 4

2100Q: **2** 

pH: 6

DO: 2

	Freshwater	m.	T.	Salinity	Dissolved	l Oxygen					People (within 100 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	
505 Front St PFF221109	Y	8;10	26.0	35.9	6.11	91.6	8.07	2.74	3.23	3.17	5 Kayaks	2	B	
Lindsey Hale PLH221109	7	8:38	25.7	35.2	6.55	97.3	8.67	24.68 23.5	8 25.3	25.6	0	B	Ø	
Lahaina Town PLT221109	N	9:07	26.3	35.1	5.75	86.2	8.04	19.2	17.2	15.9	Ø	2	D	
Camp Olowalu OCO221109	N	9:46	26.0	36.0	6.68	LODIL	8.10	1.19	2 01	2 02	8	ø	ø	
Papalaua Pali OPP221109	N	10:16	25.9	35.6	7.12	106.2	8.15	5,69	5.249	15.58	Ø	Ø	Ø	

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

FIRE IN KANAWA VALLEY 11/8/22, 8504 ACPTS

PLH: shallow calm and sediment very visible sifty:

Hth reading turb 24.6 (photo of water firm)

PLT: Neighbour reports pool w/ chlorine diamed

into storm drain — approx monthly - fliwing

toward reef: 4th reading turb 16.6

distance from shoreline Increased for Collection = to Knee level = (further than Usual Collection zone)

OCO: noticed pipe extending from shore, exposed by evosion? (photo taken)

opp: 4th turbidity taken; 2nd DO taken \* confirmed Sites with potential for freshwater flow: 505 Front St.

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.08	6.43	64.9	597
Pre-sampling	0.07	6.40	64.5	599
Post-sampling	0.07	6.40	65.1	597

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment	-	-						
Nutrients	5	OLP	Liz Yannell					

Signature (Team Lead):

Bacteria

**Printed Name:** Liz Yanvell

Team	Polanui	Samplers	Gund, K.	
Session	113	(Last Name, 1st Initial)	Sharpe, M.	
Date	11/09/2022		,	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF221109-N-1	505 Front St			8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH221109-N-1	Lindsey Hale			8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT221109-N-1	Lahaina Town			9:07	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO221109-N-1	Camp Olowalu			9:46	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP221109-N-1	Papalaua Pali			10:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
		500	0 ml	
		500	0 ml	
		500	0 ml	and the state of t
		500	0 ml	1000

ignature (Team Lead): , /	Printed Name:
ignature (Team Lead):	Liz Yanne

Barg, L Hehemanh, C Hutchings, L Beeson, M Erwin, J R2RN Team Meters and Probes ID Samplers (Last Name, Session 113 2100Q: 74 EX HO2200: 4 1st Initial) Date 11/10/22 DO: 2 pH: 6 Salinity: 4

F 1				Salinity	Dissolved	Dissolved Oxygen				People (within 100 ft)		
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal	Turbidity (NTU)		water	beach	camp
Honolua Bay RHL221110	2	8:03	24.9	356	6.43	94.3	8.19	1.69 1.30 1.	90	3	4	8
Oneloa Bay RON221110	7	8:40	25.6	36.0	6.85	102.2	8.2	0.44 0.53 0.	.60	0	2	0
Kapalua Bay RFS221110	N	9:08	25.8	36.0	6.71	100.6	8.14			23	25	0
Ka'opala Bay RKO221110	N	9:38	25.3	35.3	6.55	97.0			.36	Ø	Ø	Ø
Kahana Village RKV221110	N	10:04	25,9	35.5	6.99	104.3	8,18	4.545.90 4.	.34	10	9	0

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

RHL-2nd Solinity-35.5

RFS-2nd Solinity-35.9

RKO-Low Frae

RKV-Re-read Solinity 3 00

6.98 104.2

Turb 534

fire still going. Spread north a bit, but not all the way to Kaianapali/Kahana Sites with potential for freshwater flow: Honolua Bay, Kahana Village

TURBIDITY VERIFICATION									
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)					
Standard	70.0	6.43	64.9	597					
Pre-sampling	0.08	6.43	64,960	599					
Post-sampling	0.09	6.42	64.9	600					

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	5	OLP	M. Beeson				
Bacteria	-	Sleen St. St.	-				

Signature (Team Lead): **Printed Name:** Meredith Beeson moceson

Team R	R2RN	Samplers	Huttchings, L.	Ernin, J.	
Session 1	13	(Last Name, 1st Initial)	Berg, L.	Beeson, M.	
Date 1	1/10/22		Henemann, C.		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
utrients							
RHL221110-N-1	Honolua Bay	<b>d</b>		8:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON221110-N-1	Oneloa Bay	<b>P</b>		8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS221110-N-1	Kapalua Bay			9:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO221110-N-1	Kaʻopala Bay	<b>B</b>		9:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV221110-N-1	Kahana Village	9		10:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments	Sediments										
					500 ml						
	La Company				500 ml						
					500 ml						
					500 ml						

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