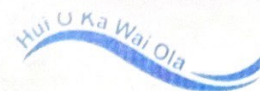


FIELD EQUIPMENT VERIFICATION (PRE/POST A WEEKLY SAMPLING)



Session No:	Verifiers (pre-sampling):				Pre Date:	Pre Time:	Verifiers (post-sampling):				Post Date:	Post Time:
WM 127, LN 4, LFR 3	M. Sharpe, L. Yannell				9/11/23	10:00 AM	L. Yannell, M. Sharpe				9/14/2023	12:00
	"				"	"	M. Sharpe, Y. St-Louis				9/12/2023	10:15
QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value		POST: Verification Value		Acceptable Range	Comments/ Notes		QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST	NIST	NIST	NIST	± 0.6 °C of NIST	Compare to NIST Std value in tap water		
					28.3 °C	27.6 °C	31.4 °C	29.2 °C				
	2	7	6/28/24		28.3		31.4					
	2	8	6/28/24			27.6		29.2				
Salinity			3 months	Std Val	Tap water	Salin Std 8/7/23 date 33.7 ppt	Tap water	Salin Std 9/11/23 date 34.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle		
	3	7	8/07/23		0.18	33.4	0.18	34.0				
	4	8	8/07/23		0.18	34.2	0.18	33.3				
Dissolved Oxygen	3/4		1 year	Std Val	100%		100%		± 5 %	verified 3x (98.4%, 97.7%) verified 2x (102.3%)		
	3	3	7/17/23		98.2		99.6					
	4	4	7/17/23		101.3		102.1					
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		
	3	5	8/07/23	7/11/23	7.00	10.01	7.00	10.01				
	4	6	8/07/23	9/11/23	7.00	10.01	7.00	10.01				
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value		
	5	n/a	7/20/23		0.05	6.41	0.06	6.59				
	2	n/a	7/20/23		0.05	6.38	0.04	6.31				

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

NMS - lab



## Hua O ka Wai Ola - Sample Collection Data sheet

Team	Lana'i	Samplers (Last Name, 1st Initial)	Sharpe, M St. Louis, Y	Meters and Probes ID		
Session	4			HQ2200: SM 4	2100Q: SM 2	
Date	09/12/2023			pH: SM 6	DO: SM 4	Salinity: SM 8

Location Name Sample ID	Freshwater 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) 5.2-7.0 normal	(%) 85-105 normal					water	beach	camp
Mānele Bay LMN230912	N	7:54	27.4	35.5	6.33	96.3	8.05	5.65 4.76	5.62	5.15	0	0	0
Hulopo'e Beach Park LHB230912	N	0815	26.7	35.4	6.76	101.9	8.08	0.98 1.31	0.97	0.84	0	0	0

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

Turbidity std for spare bottle: 0.06 NTU

LMN: Calm, some overcast, 4th TURB 5.65  
no wind, no pro. Water murky brown

LHB: calm clear day, slight swell

## TURBIDITY VERIFICATION &amp; PROBE TEMPERATURES

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.05	6.31	56.8	601
Field - Pre-sample	0.06	6.41	55.7	601
Lab - Post sample	0.04	6.37	56.3	602
Probes (+/- 0.2 °C)	D.O	Salinity	pH	Notes
Verify Probe Temps	27.0	27.4	27.3	

## CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Nutrients	2	NMS	Yms

Signature (Team Lead):

Printed Name:

Ylenia St-Louis

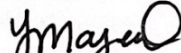
Sites with potential for freshwater flow: None

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Lānaʻi	Samplers (Last Name, 1st Initial)	Sharp M. St-Louis Y.
Session	4		
Date	09/12/2023		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
<b>Nutrients</b>							
LMN230912-N-1	Mānele Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0734	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
LHB230912-N-1	Hulopoʻe Beach Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0815	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

<b>Sediments</b>							
		<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):	Printed Name:
	Ylenia M St-Louis