

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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
98	M. Sharp, Y. St Louis, Yannel	06/06/23	1000	Sharpe, St. Louis, Yannel	6/09/2023	10:08

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	
					26.0 °C	26.1 °C	27.0 °C	27.0 °C			
	N/A	4	06/28/24		26.0		27.0				
	N/A	5				26.0					
Salinity			3 months	Std Val	Tap water	Salin Std 3/6/23 date 33.7 ppt	Tap water	Salin Std 6/6/23 date 33.4 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
					0.13		0.13				
	4	4	06/06/23		0.18	33.4	0.18	32.2		New Probes calibrated	
	3	5	06/04/23		0.19	33.5					
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %	D.O. read low in the field on Kamaole Team	
	4	2	3/17/2023		98.0 %		98.2 %				
	3	1	1/3/2023		99.0 %						
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	
	4	6	6/6/2023		7.02	10.01	7.02	10.01			
	3	5	6/6/2023		7.02	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	
	2	n/a	06/09/23		0.05	6.91	0.04	6.89		Low 6.92	
	5	n/a	05/09/23		0.06	7.15				Low 7.14	

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

NMS & YK
lab lab
(Tuesday) (Wednesday - Friday)

Team Wailea-Makena	Samplers (Last Name, 1st Initial)	B. Sousa, J. Brown, M. Sharpe, J. Dunning, D. Crever	Meters and Probes ID		
Session 98			HQ2200: 4	2100Q: 2	
Date 06/07/2023			pH: 6	DO: 2	Salinity: 4

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
Cove Park KCP230607	N	8:08	25.8	33.1	6.41	95.3	8.10	8.74	9.59	9.06	2	0	2
S Maluaka Beach MMB230607	N	8:40	25.9	34.9	6.40	95.6	8.14	0.67	0.75	0.90	3	4	0
Ahihi Kinau North MAN230607	N	9:04	25.8	35.5	7.28	108.3	8.13	1.02	2.24	1.41	0	0	0
Ahihi Kinau South MAS230607	N	9:35	25.9	35.1	6.30	93.9	8.06	0.80	0.98	1.01	6	14	0

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

KCP- Receding tide, brown water, clear skies
Recent sewer line repair of hole (in the last 2 weeks)

MMB clear skies, small surf, no shore break, tide receding

MAN- receding tide, clear skies
4th reading - 1.25


MAS- receding tide, few clouds, no shore break

Lab temp moved to Vlenia's kitchen

Sites with potential for freshwater flow: Cove Park

TURBIDITY VERIFICATION				
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.91	59.4	615
Pre-sampling	0.08	6.92	59.3	614
Post-sampling	0.06	6.92	59.7	615

CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	4	MAS YK	Sharpe
Bacteria	-	-	-

Signature (Team Lead): 	Printed Name: Sharpe
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Team	Wailea-Makena	Samplers (Last Name, 1st Initial)	B. Sousa J. Dunning D. Crevier	J. Brown (observer) M. Sharpe
Session	98			
Date	06/07/2023			

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP230607-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB230607-N-1	S Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN230607-N-1	Ahihi Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS230607-N-1	Ahihi Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:35	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):



Printed Name:

Sharpe

Team	North Kihei	Samplers (Last Name, 1st Initial) <i>Wolf A, Strauss y Baillargeon, H</i>	Meters and Probes ID		
Session	98		HQ2200: 4		2100Q: 2
Date	06/08/2023		pH: 6	DO: 2	Salinity: 4

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
Maalaea Harbor NMH230608	N	7:50	25.1	34.8	6.32	92.9	8.13	<i>aw</i> 2.18 3.25 2.58 3.48 2.49			0	0	0
Maalaea Condos NMC230608	N	8:17	25.2	34.0	7.25	106.9	8.13	2.59 3.35 2.56 2.87			0	0	0
Haycraft Park NHP230608	N	8:40	25.2	35.4	6.71	98.8	8.16	3.72 3.44 3.30			4	12	6
Kealia Pond NKP230608	N	9:09	25.8	35.6	6.52	97.6	8.15	0.72 0.80 0.82			3	2	0
Kihei Canoe Club NKC230608	N	9:35	26.6	35.0	6.52	98.6	8.13	12.3 12.3 14.6 15.2 13.2 4.4			1	40	0

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

NMH - windy, sunny
4th reading + 5th reading for turbidity
NMC - 1 ft swell - Sunny
4th turbidity = 9.59 NTU, 5th = 2.87 NTU
algae growing on rocks; DO high
NHP - Breezy, Sunny, clear water - calm
NKC dirty water
particles in turbidity bottle

Sites with potential for freshwater flow: Maalaea Harbor, Maalaea Condos, Kealia Pond, Kihei Canoe Club

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.91	59.4	615
Pre-sampling	0.09	6.91	59.4	614
Post-sampling	0.05	6.92	59.8	614

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	YK	Yms
Bacteria	-	-	-

Signature (Team Lead):

Yms

Printed Name:

Ylenia Mst-Louis

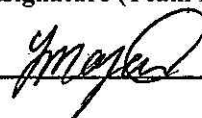
Team	North Kihei	Samplers (Last Name, 1st Initial)	A. Wolf Y. St-Louis H. Baillargeon
Session	98		
Date	06/08/2023		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH230608-N-1	Maalaea Harbor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0750	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC230608-N-1	Maalaea Condos	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0817	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP230608-N-1	Haycraft Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0840	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP230608-N-1	Kealia Pond	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0909	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC230608-N-1	Kihei Canoe Club	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0935	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):

Printed Name:



Ylenia M St-Louis

Team	Kamaole	Samplers (Last Name, 1st Initial) <i>McHugh, K</i> <i>Sharpe, M.</i>	Meters and Probes ID		
Session	98		HQ2200: 4		2100Q: 2
Date	06/09/2023		pH: 6	DO: 2	Salinity: 4

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
Kalepolepo North NKN230609	N	7:50	25.6	34.3	5.60	83.1	8.08	3.47	3.33	3.64 ^{ms} 4.59	2	2	0
Waipuilani Park KWP230609	N	8:15	25.3	33.5	4.92	72.6	8.02	8.54	7.87 ^{ms} 9.18	8.21	0	1	0
Kihei South KKS230609	N	8:35	26.1	33.6	5.29	79.1	8.05	7.53	7.68	7.09	2	5	0
Kalama Park KKP230609	N	8:52	26.1	35.2	6.82	101.9	8.15	7.11	6.77	6.95 ^{ms} 7.82	0	2	0

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

NKN: Sunny, calm, no wind, tiny waves, low tide.
Swimmer nearby 4th TURB 3.64

KWP: Sunny, calm, no wind, small waves,
swimmers down the beach just over 100 ft.
4th turbidity = 7.87, 5th: 7.11 * Salinity & DO reading
Pan DO + Salinity 2x Low Low

KKS: Sunny, light wind, tiny waves, honu on beach
calm no wave action @ shoreline

KKP: Sunny, light wind, 1-2 ft waves, sea slug + urchin
on shore, lots of surfers out > 100 ft away
4th = 6.95

Sites with potential for freshwater flow: All

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.91	59.4	615
Pre-sampling	0.07	6.93	59.4	615
Post-sampling	0.04	6.89	59.4	614

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	4	Sharpe YK	Sharpe
Bacteria	-	-	-

Signature (Team Lead):

[Signature]

Printed Name:

Sharpe

YK Lab

Team	Kamaole	Samplers (Last Name, 1st Initial)	McHugh, K Sharpe, M
Session	98		
Date	06/09/2023		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN230609-N-1	Kalepolepo North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP230609-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS230609-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP230609-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:52	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): Sharpe	Printed Name: Sharpe
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