

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

Session No:		Verifi	ers (pre-samp	oling):	I	Pre Date:	Pre Tin		Verifiers (post-sa	mpling):		ost Time:
1035M	4.St-1	Louis	, M. Sharp	e	09	125/23	0940	Yan	nell, L. Keyl Louis, II,	ravi, C.	9/28/23 11	:30 AM
5 La QA/QC Check	Inst#	Probe #	Last Cal Date		P	25   23 RE: tion Value	PC	OST: tion Value	Acceptable Range		Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 25.9°C	NIST 25.4°C	NIST 316c	NIST 29.4 °C	± 0.6 °C of NIST	Compare t	o NIST Std value in tap water	
	2	7	6 28 24		25.9	25.2 Ya	31.6	29.2				
Salinity			3 months	Std Val	Tap water 0.13	Salin Std 9 1 1113 date 34.0 ppt	Tap water  O.13	Salin Std 9/11/29ate 34-Oppt	± 1 ppt	Salinity Sto	- compare pre & post values d - compare to value on linity Std bottle	
	2	7	8/7/23		0.18	33.9	0.19	33.7			•	
	2	8	8/7/23		0.18	33.D	0.18	33.2				
Dissolved Oxygen			<u>l year</u>	Std Val	10	0%	10	0%	± 5 %			
	3	3	7/17/23		101.	5	10	1.4	No. of the Control			
	3	4	7/17/23		101.		10	1.8				
рН			3 weeks	Std Val	рН 7.00	pH 10.00	pH 7.00	pH 10.00	± 0.1 pH of pH std value		Manufacturer pH Std value on bottle	
	4	6	9125 23		7.01	10.01	7.03	10.05		PH SOI	utions > 5/2024	
	4	5	9/25/23		7.00	10.01	7.02	10.02		LXP	5/2024	
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		e to Gel LOW 1-10 Calibration value	
	2	n/a	817   23		0.06	6.3 <b>½</b>	0.05	6.35		LOW: 6.	31	
	5		8/7/23	1 1 1 Kg	0.05	6.54	0.04	6,59		Low: 6	54	

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

\* Delay times are ok?

\* Other equipment issues?

NM5 Lab

Team Kamaole	Samplers	KMcHugh, S. Graves, M. Sharpe	Meters and Pr	obes ID		
Session 103	(Last Name, 1st Initial)		HQ2200:3		2100Q: 5	
Date 09/26/2023			pH: 5	DO: 3	Salinity: 7	

				Calinity	Dissolved	Oxygen					People	e (within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) (mg/L) (%) 8-8.3 (NTU)			water	beach	camp				
Kalepolepo North NKN230926	N	8.0€	25.7	34.1	6.13	90.3	8.10	3.85	3,75	4.35	0	5	0
Waipuilani Park KWP230926	N	8:23	25.2	33,2	6.69	97.2	8.08	12.8	13.8	14.2 KM	0	2	0
Kihei South KKS230926	N	8:48	26.1	34.2	6.12	90,9	8.07	5.27L 5.45	4.76	4.86	1	4	@ To
Kalama Park KKP230926	N	9:04	20.0	35.5	6.74	100.6	8.15	6.45	6.34	7.07	)	4	0

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

Use the back of the form if needed.

NEN: Looks pretty clear, but some 1-2ft waves, minimal wind, sunny

EWP: Small waves, light breeze, water

looks milky /mwky. One surfer, people walking w/dog. 4th reading = 12.9

\*\*Read pH temp at second site

KKS: small waves, minimal wind, camper w/

grocony carte

KKP: Small waves 2ft, a couple surfur far out, com ways at night tide line washed on shore

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.05	6.54	58.4	605
Field – Pre-sample	0.06	6,70	58.8	605
Lab – Post sample	0.05	6.47	58.5	604
Probes (+/- 0.2 °C)	Salinity	DO	pH	Notes
Verify Probe Temps	25.7	25,3	A 25.	TE read a

	CHAIN OF CUSTO	DY INFORMATION	
	# of samples	Relinquished to	Contact
Nutrients	4	NMS	Sharpe

Signature (Team Lead):

Printed Name:

MSHAPPE

Team	Kamaole	Samplers	Mc Hugh, K	
Session	103	(Last Name, 1st Initial)	Graves, S	
Date	09/26/2023		Sharpe, M	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
lutrients							
NKN230926-N-1	Kalepolepo North	Ø		8:05	125 ml	Washed, rinsed syringes, acid washed bottles, 0.2 um disposable filters	
KWP230926-N-1	Waipuilani Park	Ø		8:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS230926-N-1	Kihei South	Ø		8:48	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP230926-N-1	Kalama Park	F		9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	
400	MSharpe	

Team	Wailea/Makena	Samplers	BOB, DEAN	& DAN,	Yannell, L.	Meters and Pro	bes ID		
Session	103	(Last Name, 1st Initial)	0.00		Joseph Colly	HQ2200: 3		2100Q:	5
Date	09/27/2023	,	Sharpe, M.			pH: 5	DO: 3		Salinity: 7

		197		Salinity	Dissolved	Oxygen					People	(within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L) 5.2-7.0 normal	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)			water	beach	camp
Cove Park KCP230927	N	8:05	26.5	33,3	6.05	89,6	8.07	4,73	6,17	443	No	No	2
S Maluaka Beach MMB230927	1/	8:45	26,5	35.2	6.55	98.5	8.15	1.06	€,73	0.54	Z	9	No
Ahihi Kinau North MAN230927	N	9:11	26.4	35.Z	7.98	119,6	8.14	1.00	1.30	1.17	Afo	4	No
Ahihi Kinau South MAS230927	N	9:32	26.5	35.9	6.43	97.1	8,14	0.54	0,51	0.46	5	16	Alo

J	NOTES AND COMMENTS (trends, equipment problems, errors, concerns).  Jse the back of the form if needed.
	kCP-looked less brown; tide marty xy high and rising! High @ 2:42 PM
1	Low was at 07:57 Am; 4th turbidi MMB-clear, calm, quiet MAN-clear, some shorebreak. Do
1	MAN- clear, some shorebreak. Do read 2x; 4th turbidity
1	MAS-clear, calm, easy to enter the water, sunny, no breeze
	the water, sunny, no breeze

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1 80)	High (+/- 18)
Turbidity Standard	0.05	6.54	58.4	605
Field – Pre-sample	0.05	6,48	58.8	606
Lab – Post sample 0.06		6.48	58.4	602
Probes (+/- 0.2°C)	Salinity	D.O	pН	
Verify Probe Temps	26,5	26,2	26,4	

	CHAIN OF CUSTO	DY INFORMATION	Production and School
	# of samples	Relinquished to	Contact
Nutrients	4	NMS	Sharpe

Signature (Feam Lead):	Printed Name:	
	Sharpe	

Team	Wailea/Makena	Samplers	Sousa, B	Yanhell L	
Session	103	(Last Name, 1st Initial)	Bentley, D	Sharpe, 'M	
Date	09/27/2023		Crevier, D		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP230927-N-1	Cove Park	Ø		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB230927-N-1	S Maluaka Beach	Þ		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN230927-N-1	Ahihi Kinau North	<u>D</u> /		9:11	125 ml	Washed, rinsed syringes; acid washed bottles, 0.2 um disposable filters	
MAS230927-N-1	Ahihi Kinau South	Ø		9:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	8 -18 10 8 08

Sediments			
		500 ml	
		500 ml	
		500 ml	
		500 ml	1 189

ignature (Team Lead):	Printed Name:	
	Sharpe	

Team	North Kihei	Samplers	A. Helgeland, A Wolf, C. Keyhani.	Meters and Pr	robes ID		
Session	103	(Last Name, 1st Initial)	H. Bayllargeon	HQ2200:3		2100Q:	5
Date	09/28/2023			pH: 5	DO: 3		Salinity: 7

				Salinity	Salinity Dissolved Oxygen						People	(within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	e (ppt) (r 30-35 5	(mg/L) 5.2-7.0 normal	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)			water	beach	camp
Maalaea Harbor NMH230928	N	7:50	25.4	35.5	6.10	89.9	8.11	1.25	1.09	1.38	Ø	Ø	Ø
Maalaea Condos NMC230928	N	8:15	25-8	34.7	7.23	107.0	8.09	3,39	3.50	3_33	0	0	0
Haycraft Park NHP230928	N	8:40	25.9	35.4	6.90	1029	8011	5.81	5.45	5.68	2	0	93
Kealia Pond NKP230928	N	9:12	26.4	36.2	6.83	103.1	8.17	1.25	1.22	1.14	0	4	Ø
Kihei Canoe Club NKC230928	7	9:36	26.9	35.6	6.56	99.5	8.13	8.32	9.42	7.79	BO	0	8

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

NMC - pospinion after right in the sample site 2nd Reading - Dissolved Dxyl7.21 mg/L) tide Low

NHP Construction in Parking Lot Syringe broke-2 nd Natri Sample 8:50 wave Lots of flies where we parked the car

NKP - wave action, light breeze

NKC - Brown water in hearshore, steep drop off few fort into the water, wave action particles in sampe/ timy particulates

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

	Blank (must be <0 10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.05	6.54	58.4	605
Field – Pre-sample	0.08	6.48	58.8	604
Lab – Post sample	0.04	6.59	58.5	604
Probes (+/- 0.2°C)	Salinity	DO	pH	Notes
Verify Probe Temps	25.4	25.2	25.3	

	CHAIN OF CUSTO	DY INFORMATION	V
	# of samples	Relinquished to	Contact
Nutrients	5	NM5	Christiane

Signature Team Lead:

Christian Keylmi Christiane Keyhani

Team	North Kihei	Samplers	A. Helgeland		
Session	103	(Last Name, 1st Initial)	A. Wolf		
Date	09/28/2023		H. Baillargeon	C. Kerhani	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH230928-N-1	Maalaea Harbor	Ø		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC230928-N-1	Maalaea Condos	Ø		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP230928-N-1	Haycraft Park	Ø		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Had to take a 2nd nutrient sample becomes the syringe brake
NK230928-N-1	Kealia Pond	Ø		9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC230928-N-1	Kihei Canoe Club	ď		9:36	125 ml	Washed, rinsed syringes, acid washed bottles; 0.2 um disposable filters	

Sediments									
					500 ml				
				100	500 ml				
					500 ml				
					500 ml				

Signature (Team Lead):	Printed Name:	
Image ?	Ylenia m St-Lovis	