



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
5M104	M. Sharp, Y.st-Louis	10/16/2023	0930	C. Keyhani, M. Sharp	10/19/2023	10:15 AM

QA/QC Check	Inst #	Probe #	Last Cal Date		PR Verificati			OST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST 2	n/a	NIST Exp. Date	Std Val	NIST 2.5.4℃	NIST 25.4 _℃	NIST °C	NIST 24.7 _{°C}	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	. 3	7	2810102024		25.2	tale de la companya d					
	3	8				25.2		24.6			
Salinity			3 months	Std Val	<u>Tap water</u> 0.13	Salin Std Alul 23 date 340 ppt	Tap water O.13	Salin Std 911123 date 34.0ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	3	7	7 AUG 2013		0.19	33.9		61 2 3			
	3	8	7AUG2023		0.19	33.8	0.19	33.9			
Dissolved Oxygen			1 year	Std Val	10	0%	10	00%	± 5 %		
	4	4	17 JUL 2023		101.	2	10	2.5			
	4	3	17 JUL 2023		99,	3					
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	16 OCT 2023		7.00	10.01	7.01	10.03			
	4	5	16 OCT 2023		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	
	2	n/a	7 AUG 2023		0.04	631	0.06	6.32	6.31		
	5	n/a	7 AUG 2023		0.05	6.50			Low: 6.54		

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

* Delay times are ok?

* Other equipment issues?

NMS Lab

Hui O Ka Ola - Sample Collection Datasheet

Team Kamaole	Samplers	K. McHugh, H. Hecht, M. Shavee	Meters and P	robes ID
Session 104	(Last Name, 1st Initial)		HO2200: SM4	
Date 10/17/2023	rst finitial)		pH: SM6	DO: SI

HQ2200: SM4	210	00Q: SM4
pH: SM6	DO: SM4	Salinity: SM8

	Freshwater	Page .		Salinity	Dissolved	Oxygen					People	e (within 1	00 ft)
Location Name Sample ID	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	has"	Turbidity (NTU)	, e	water	beach	camp
Kalepolepo North NKN231017	N	7:55	26.4	35.3	6.18	92.7	8.67	7,38	7.85	7,14	Ø	6	0
Waipuilani Park KWP231017	N	8:20	76.2	35,4	6.61	98.9	8.06		20.0	20,5	1	0	0
Kihei South KKS231017	N	8:32	26.7	34.3	6.12	91.7	8.04	The second	8.33		0	5	0
Kalama Park KKP231017	N	8:52	26,7	35.1	6,74	1613	8409		9.24	7,98	0	1	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed.
NKN - No wind - Small suit - No clouds - warm
KWP-Nowled-small surf-warm-witer looks
1
KKS - light wind - small shore break - warm to clouds -debrison beach high tide line 4th torb 8:57
No clouds -debits on beach night
tide line 4th toll 8:51
KKP - No clouds - Shore Break -2'- water looks muddy - Tub-9.2 5th strong shore break Wsand in Edled. B. 2 5th
water looks muddy - Turb- 312 5th
strong share break Wsand in Edled. O. L
`

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.04	6.31	56.8	601
Field – Pre-sample	0.09	6.37	56,4	602
Lab – Post sample	0.05	6.46	56.5	603
Probes (+/- 0.2 °C)	Salinity	DO	pH	Notes
Verify Probe Temps	26.4	26.2	26.3	

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

Signature (Team Lead):

Printed Name:

N. Shavpe

Team Kamaole	Samplers	Methyph, K	
Session 104	(Last Name, 1st Initial)	Hecht, H	
Date 10/17/2023	- Ist Imital)	Sharpe, M	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN231017-N-1	Kalepolepo North	Þ		7:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP231017-N-1	Waipuilani Park	ď		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS231017-N-1	Kihei South	卤		8:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP231017-N-1	Kalama Park	1		8:52	125 ml	Washed, rinsed syringes, acid washed bottles, 0.2 um disposable filters	

Sediments				
			500 ml	
			500 ml	
	1		500 ml	
	and the state of		500 ml	

Signature (Team Lead):	Printed Name:	
Signature (Team Lead): Sharpe	M. Sharpe	

NMS

Hui O'Ka Ola - Sample Collection Datasheet

Team	Wailea/Makena	Samplers	Bentley, D	Meters and Pr	obes ID	
Session	104	(Last Name, 1st Initial)	Sousa B	HQ2200; SM4		2100Q: SM4
Date	10/18/2023	- B	Crevier, D	pH: SM6	DO: SM4	Salinity: SM8

Tarak N	Freshwater	Time	т	Salinity	Dissolved	Oxygen					People (within 100 ft)			
Location Name Sample ID	Flowing (Y/N)	(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 KCP231018	N	7:50	26.6	35.0	6.67	100.0	8.05	7,30	8,73	7.41	2	0	1	
S Maluaka Beach MMB231018	N	8:15	26.4	35.7	6.80	102,4	8.11	3.75		3.48	2	Z	0	
Ahihi Kinau North MAN231018	N	8:36	26,2	35.7	6.84	102.3	8.06	1.71	2.02	1.94	\Diamond	2	0	
Ahihi Kinau South MAS231018	N	8:52	26.2	35.7	6.71	100.6	8.09	2.81	2.95	4.10 Pc 3.45		3	0	

	Use the back of the form if needed.
	Cove Park - median high tile - rough water
	Maluka - large waves debris in water
	Milai N - high tide large swells
	Ahihi 5 - rough conditions. - took extra turbidity sample
- 1	

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.04	6.31	56.8	601
Field – Pre-sample	0,06	6.39	56.4	603
Lab – Post sample	0.06	6.37	56.9	601
Probes (+/- 0.2°C)	Salinity	DO	pН	
Verify Probe Temps	24,6	26.2	26.6	

	CHAIN OF CUSTO	DY INFORMATION	
	# of samples	Relinquished to	Contact
Nutrients	4	NM5	Thanke

Signature (Team Lead):	Printed Name:	
91 Sharpe	Sharpe	

Team	Wailea-Makena	Samplers	SOULA B
Session	104	(Last Name, 1st Initial)	Bentley, D
Date	10/18/2023		Crevier, D

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP231018-N-1	Cove Park	Ą		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB231018-N-1	S Maluaka Beach	口		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN231018-N-1	Ahihi Kinau North	Á		8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS231018-N-1	Ahihi Kinau South	Þ		8:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments	4		
		500 ml	

Signature (Team Lead):	Printed Name:	
	Sharpe	
400	Starps	

NM3

Hui O Ka Ola - Sample Collection Datasheet

Team North Kihei	Samplers	Wolf, A.; Keyhani, C.;	Meters and Pr	obes ID	
Session 104	(Last Name, 1st Initial)	2	HQ2200: SM4	2	100Q: SM4
Date 10/19/2023		Baillargeon, H.; Helgeland, A	pH: SM6	DO: SM4	Salinity: SM8

•	Freshwater	Tr:	Т	Salinity	Dissolved	Oxygen					People	e (within 1	00 ft)
Location Name Sample ID	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
Maalaea Harbor NMH231019	N	7:50	26.0	35.4	6.38	95	8.08	3.00	1.93	1.58	0	0	0
Maalaea Condos NMC231019	N	8:10	25.9	35.5	6.50	101.5	8.02	5.33	5,49	5.510	0	0	()
Haycraft Park NHP231019	N	8:30	26.1	35.6	6.85	102.7	8.08	10.00	11.20	11.00	0	3	0
Kealia Pond NKP231019	N	8:55	26.3	36.1	6.88	103.8	8.14	1.11	Site and the same of	0.96	1	5	0
Kihei Canoe Club NKC231019	N	9:15	26.7	35.7	6.77	102.6	8.11	7.65	7.60	8.11	0	0	0

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

NMH: Windy, small S swell

NMC: Very high tide, torte in water 4 to 74 Turb 4.48, 5.51

NHP: Breezy small S swell Light brown water

NILP: Light breeze, small Ssuell Light brown water or shore break.

NKC: Brown water, small Swell, breezy

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.04	6.31	56.8	601
Field – Pre-sample	0.08	6.18	56.4	605
Lab – Post sample	0.06	6.32	56.6	603
Probes (+/- 0.2°C)	Salinity	DO	pH	Notes
Verify Probe Temps	26	25.5	25.9	

	CHAIN OF CUSTO	DY INFORMATION	
	# of samples	Relinquished to	Contact
Nutrients	5	MMS	Sharps

Signature Team Lead:

Printed Name:

Christiane Keylini Christiane Keyhani

Team North Kihei	Samplers	Wolf, A.; Keyhani, C.;
Session 104	(Last Name, 1st Initial)	Baillargeon. H; Helgeland, A.
Date 10/19/2023	ist illitial)	Barrian Ar. 11) Heigelavise, Ar.

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH231019-N-1	Maalaea Harbor	□⁄		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC231019-N-1	Maalaea Condos	□ ✓		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP231019-N-1	Haycraft Park			8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP231019-N-1	Kealia Pond			8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC231019-N-1	Kihei Canoe Club			9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
	50 1				500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	
Christine Keylori	Christiane Keyhani	