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



Session No:	Verifiers (pre-sampling)	Pre Date:	Pre Date: Pre Time: Verifiers (post-sampling			Post Time:
95	M. Sharpe Y St. Lovi	27 March	7023 9:38	M. sharpe, Y. St-Louis	103 30 23	10:30

QA/QC Check	Inst #	Probe	Last Cal Date		PR Verificat	E: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 26.1°C	NIST 25.8℃	NIST — °C	NIST 29.1 °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water
		2	06/28/24		26.2		_			
		3				25.6		29.1		
Salinity			3 months	Std Val	<u>Tap water</u> O. 13	Salin Std Sc/25 date 33.7 ppt	Tap water	Salin Std 3[6]23date 33.7 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
		2	2/23/23		0.11	32.3	-			
		3	1 23 23		0.13	33.7	0.12	33.5		
Dissolved Oxygen	1 year Std Val 100%		0%	10	00%	± 5 %				
		2	1/3/2024		99	0.6	-	_		
		1	1/3/2024		101	.2	100	. 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
Meter 4		4	3/27/2023		7.07	10.05	-			PH7 Exp 03/2023 (Dumped) PH4 Exp 12/2023
		5	3/27/2023		1.02	10.01	7.02	9.99		PHIO Exps/2023 (Domped After wa
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value
Meter 4	WM	n/a	2/13/2023	19	0.07	6.44	0.07	6.47		RWM meter used in field
Meter 2	SM	n/a	2/13/2023		0.05	6.75	-			

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

* Other equipment issues?

LAB: NMS

Team	Kamaole	Samplers Xxxx	. 1	Meters and Probes ID	wm meter		
Session	95	(kura	HQ2200: 3	2100Q:	4	
Date	03/28/2023	6	cott	pH: 5	D: 1	Salinity: 3	

	Freshwater Flowing (Y/N)			Salinity	Dissolved	Oxygen		Turbidity (NTU)			People	(within 1	00 ft)
Location Name Sample ID		Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	PH 8-8.3 normal				water	beach	camp
Kalepolepo North NKN230328		7:56	25.2		6,50			22,4	32.7	23.3	0	3	6
Waipuilani Park KWP230328	N	8:16	25.7	32.7	5,96	87,7	8.08				0	5	0
Kihei South KKS230328	N	8:31	26,4	33.3	6.15	91.8	8.12	7.84	9,11	B.23	4	6	d
Kalama Park KKP230328	N	9:01	26.2	34.6	6.59	96.7	8.(3	2,96	8.45	9.32	3	2	V

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed.
NKN-Cloudy, low tide, Ato 64.6-Extrumed-Novind-
small gord, wind 4 mer.
KWP- Cloudy, wind 6 mph, loufide, people wolking trators. 1917 51 18.2 beach beach
4th+016, 1917 51 18.2
RICS - Cloudy, wind 5mph, small surf, ++ forb. 11.7 5th 9.89 1 tig particle.
KKP Cloudy, wind 2mph, Small surt, 4 4 turb-13 8:69
med Turbidity verification 2nd read 64.7

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.07	6.44	63.8	596
Pre-sampling	0.08	644	65,169.6	600
Post-sampling	0.07	6.43	64.964.7	600

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	4	NMS	yms
Bacteria			-

Signature (Team Lead): Printed Name:

Team Kamaole	Samplers	Mchugh. K
Session 95	(Last Name, 1st Initial)	Graves. S
Date 03/28/2023		Herry. H

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN230328-N-1	Kalepolepo North	Ø		756	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP230328-N-1	Waipuilani Park	Ø		816	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS230328-N-1	Kihei South	Ø		831	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP230328-N-1	Kalama Park	8		901	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
2727		-	500 ml	
			500 ml	
			500 ml	
			500 ml	

Signature (Team Lead):	Printed Name:	_
Jmeya O	Ylenia M St-Louis	

Wailea-Makena Team Samplers (Last Name, Session 95 1st Initial) Date 03/29/2023

B. Sousa, D. Bentley, J Dunning

Meters and Probes ID

wm meter 2100Q: 4

HQ2200: 3

pH: 5

DO: 1

Salinity: 3

	Freshwater Flowing (Y/N)	Time (of collection)		Salinity (ppt) 30-35 normal	Dissolved	Oxygen					People	(within	100 ft)
Location Name Sample ID			Temp (°C) variable		(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)			water	beach	camp
Cove Park KCP230329	Y	7:50	25.4	32.4	6.63	97.1	8.05	5.29	4.91	4.98	ϕ	Ø	2
S Maluaka Beach MMB230329	N	8:25	25,4	34.5	6.40	97.5	8.4	1.89	2.40	2,20	1	2	Ø
Ahihi Kinau North MAN230329	Ν	8:42	24,7	35.1	6.93	161.4	8.10	1.25	1.38	1.39	3	7	Ø
Ahihi Kinau South MAS230329	N	9:05	24.8	34.8	6.64	97.1	8.10	1.09	1.28	1.12	823	6	Ø

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

Use the back of the form if needed.

med pre 64.9,65.2,65.1, cleaned bottle several times

covepark. light rain, cloud cover

matuaka- high tide, 2 dogs on beach

Anihi N. hightide, low wave action

Ahihi 5. Le receding tide

TURBIDITY VER	RIFICATION				
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)	
Standard	0.07	6.44	63.8	596	
Pre-sampling	0.08	6-41	64.9	600	
Post-sampling	0.06	6.40	64.6	602	

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment	or the second	-	-					
Nutrients	4	NMS	Sharpe					
Bacteria	-	-						

Signature (Team Lead):

Printed Name:

Sharpe

Sites with potential for freshwater flow: Cove Park

Team	Wailea-Makena	Samplers	B. Sousa	
Session	95	(Last Name, 1st Initial)	D. Bentley	
Date	03/29/2023		1. Dunning	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP230329-N-1	Cove Park	9		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB230329-N-1	S Maluaka Beach	7		8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN230329-N-1	Ahihi Kinau North	₽′		0:42	125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		- 1 - 1-
MAS230329-N-1	Ahihi Kinau South	Ø		9:09	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	

Signature (Team Lead):	Printed Name:	
CAS	Sharpe	

Samplers

1st Initial)

North Kihei

03/30/2023

Team

Session

Date

Keyhani, C. (Last Name, St-Louis, y Yannell, L.

Meters and Probes ID WM meter 2100Q: 4 HO2200: 3 DO: 1 Salinity: 3

		2 300		Salinity	Dissolved	Oxygen					Peopl	e (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)	2.36	water	beach	camp
Maalaea Harbor NMH230330	N	0750	25.0	34.9	6.44	94.4	8.10	2.61	2.11	1.92	60	2	Ø
Maalaea Condos NMC230330	N	0845	25.1	34.1	7.28	106.23	8.14	10.6	10.5	10.3 8	0	0	Ø
Haycraft Park NHP230330	N	0825	25.0	34.9	6.88	101.0		16.7	17.0	16.1	Ø	2	Ø
Kealia Pond NKP230330	N	09:15	25.5	35.6	6.87	101.9	8.14	4.07	3.06	3.13	Ø	10	Ø
Kihei Canoe Club NKC230330	\mathcal{N}	9:38	26.2	34.7	6.78	101.5	8.09	32.0	28.9	28.8	0	Ø	0

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

NMH - Did 5 reading on turbidity two lows one 2.14, 1.94, calm water, light wind

NMC-Normal PAth Blocked due to Bonstruction, possibly, NHP-Fishing Pole, one dog on beach, Brown water

Some Swell 17.8 = 2 the ading 15.135 the

NMC-came back to sample; walked around to a

different entrance to avoid construction

of Took a second DO reading and 4th turbidit

on NKP-lots of wave action at shore break; lots

of sand in samples => took a second sample

4th findity taken 5th = 3.72 NTU

Sites with potential for freshwater flow: Maalaea Harbor, Maalaea

Condos Kaslia Pond Kibai Conce Club

Condos, Kealia Pond, Kihei Canoe Club

NKC-Sand beach replenishment happened last week brown water

TUKBIDITT VI	EKIFICATION			
2 15 W 1 2 PM 1	Blank (must be <0.10)	Low (+/- 0.18)	Med (±/-1.80)	High
Standard	0.08.0	6:48	63.8	23

pH: 5

6.43 64.6 Pre-sampling 0.06 601 598 6.46 64.8 Post-sampling 0.07

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	yms
Bacteria	_	-	-

Signature (Team	Lead):
1/1	1 010
Tim	Imel/

TUDDIDITY VEDICICATION

Printed Name: Liz Yannell

Team	North Kihei	Samplers	Keyhani, C	
Session	95	(Last Name, 1st Initial)	St-Louis, y	
Date	03/30/2023		Yannell, L	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients				44-4			
NMH230330-N-1	Maalaea Harbor	Þ		0750	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC230330-N-1	Maalaea Condos	Ø		0845	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP230330-N-1	Haycraft Park	Ø		0825	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP230330-N-1	Kealia Pond	Ø		0915	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC230330-N-1	Kihei Canoe Club	Ø		0938	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	
	1		500 ml	
			500 ml	
			500 ml	

Printed Name:	
Ylenia Mayen St-lous	
	Printed Name: Ylenia Mayen SF-Louis