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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
77	T. Stark, Y. St-Louis	3/7/22	10:50 am	T. Stark, Y. St-LOWS	3/10/22	10:05 cm

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes Q
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 25.5 _{°C}	NIST 25.3 _℃	<u>NIST</u> 25.4 _℃	NIST — °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water
	ı		10/16/22		25.5		25.4			
	1					25.4		_		
Salinity			3 months	Std Val	Tap water 0.05	Salin Std 124 12 date 33.9 ppt	Tap water O·18	Salin Std 121122 date 33.9 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	1	3	the state of the s		0.05	34.0	0.18	339		pre-verification@TSK
	1	2	2/15/22		0.04	33.7	_	_		post-verification e YSK
Dissolved Oxygen			1 year	Std Val	10	0%	10	00%	± 5 %	
	1	1	12/16/21		101.0	./.	99.0	7.1.		
	1	2	12/16/21		100.0	7 %	_			
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
	1	5	3/7/22		7.03	10.01	6.99	10.00		p4 10.01 expire: 03/22 p4 1.00 expire: 03/23 p4 4.01 expire: 12/23
	1	4	3/1/22		7.01	10.01				pt 4.01 expire: 12/23
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value
	l	n/a	1 24 22		0.08	6.61	0.04	6.59		LOW STD: 6.57 MW Hardtime actions Hank CO.1 MW.
	2	n/a	1/24/22		6,09	6.30	_		1	Hardtime octains Have 20.1 MTM. Brand new distilled water. LOW STD: 6.32 NTM

QA:

* Are pre- and post within one week?

* Delay times are ok? * Other equipment issues?

Lab TSK = Tiara Stark Kitchen
Lab YSK = Ylenia St-Louis Kitchen

Scott G. Ylenia S. Meters and Probes ID Team Kamaole Samplers 1. Stark (Last Name, 2100Q: 1 HQ40d: 1 77 Session 1st Initial) 03/08/2022 DO: Salinity: 3 pH: 5 Date

				Salinity	Dissolved	l 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)		water	beach	camp
Kalepolepo North NKN220308	N	6800	24.3	33.4	6.37	91.9	8.13	3.48	3.46	3.61	0	11	0
Waipuilani Park KWP220308	N	0821	24.1	33.6	5.96	85.8	8.09	11.9	11.9	11.8	2	3	0
Kihei South KKS220308	N	0838	25.0	34.8	6.08	89.4	8.14	4.27	4.34	4.31	2	1	0
Kalama Park KKP220308	N	0857	24.2	35.1	6.61	96.1	8.12	6.97	7.43	7.61	2	3	0

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

khulalm, no shore break, some People Walking by.

KWP: Calm, light wind, little to no surf.

15 KS 220308- 0-2ft surf, light wind

BKP-Dogs Playing in water & beach.

NKP-Dogs Playing in water & beach.

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.08	6.57	57.5	565
Pre-sampling	0.09	6.70	56.7	564
Post-sampling	0.09	6.57	57.5	565

CHAIN OF CUS	STODY INFORMATION	ON	
- Consuming Consumina Cons	# of samples	Relinquished to	Contact
Sediment	_	.=	-
Nutrients	4	TSK	4 stlovis
Bacteria	-	-	0 -

Signature (Team Lead):

Printed Name:

Ylenia St-Louis

Sites with potential for freshwater flow: All

& Introduction to Ylenia

Team	Kamaole	Samplers	Scott G.	T. Stark	
Session	77	(Last Name, 1st Initial)		1. 7 10110	
Date	03/08/2022		ylenia s.		and the second s

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN220308-N-1	Kalepolepo North	2		0800	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP220308N-1	Waipuilani Park	12*		0821	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS220308-N-1	Kihei South	Ø		0838	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP220308-N-1	Kalama Park	Ø		0857	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
ocuments			T				
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	
ymajen	Ylenig. St-Louis	

Team	Wailea-Makena	Samplers	Q. Wolf, M. Sharp, Y St. Louis,	Meters and Pro	bes ID	
Session	77	(Last Name, 1st Initial)	8. Dunning	HQ40d: 1		2100Q: 1
Date	03/09/2022			pH: 5	DO: 1	Salinity: 3

	E-male-st-			Salinity	Dissolved	l Oxygen				People	e (within 1	100 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	Turbi (NT		water	beach	camp
Cove Park KCP220309	N	8:19	25.0	31.4	6.08	88.0	8.04	5.57 5.7	5.44 8 4.21	Ø	3	2
S Maluaka Beach MMB220309	N	8:59	24.6	35.2	6.77	99.4	1	0.58 0.9		3	4	0
Ahihi Kinau North MAN220309	N	9:24	24.9	34.9	7.71	113,4	8.07		\$ 1.75	6	(1	0
Ahihi Kinau South MAS220309	N	9:45	25.2	34.2	6.74	99.4	8,03	0.80 0.8	0 0.80	8	6	0

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

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.09	6.57	57.5	565
Pre-sampling	0.09	6.61	57.6	565
Post-sampling	0.05	6.61	57.6	564

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	4	YSK	yms+Loui
Bacteria	_	-	0.0.

Sites with potential for freshwater flow: Cove Park

Signature (Team Lead):

Printed Name:

Yrenia St-Louis

Team	Wailea-Makena	Samplers	a. Wolf, M. sharp, J. Dunning
Session	77	(Last Name, 1st Initial)	a. wolf, M. sharp, J. volling
Date	03/09/2022		y. St-Louis

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP220309-N-1	Cove Park	Ø		8:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB220309-N-1	S Maluaka Beach	Ø		8:59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN220309-N-1	Ahihi Kinau North	Ø		9:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS220309-N-1	Ahihi Kinau South	Ø		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	1999
ymayen	Ylenia St-Louis	

Team	North Kihei	Samplers	BUNNETTE, G.	St-Louis Y	Meters and Pro	bes ID	
Session	77	(Last Name, 1st Initial)		200.0, 1	HQ40d: 1		2100Q: 1
Date	03/10/2022		BAHA, F		pH: 5	DO: 1	Salinity: 3

				Salinity	Dissolved Oxygen				People (within 100 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)	water	beach	camp
Maalaea Harbor NMH220310	N	7:50	24.8	35.5	6.36	93.7	8.13	0.85 0.92 0.91	0	0	0
Maalaea Condos NMC220310	N	8:16	24.9	33.7	7.01	1		5.27 5.23 4.95		1	0
Haycraft Park NHP220310		8:30	24.8	35.0	6.74	99.3	8.09		0	5	0
Kealia Pond NKP220310	N	8:50	25.0	35.8	6.71	99.4		0.49 6.43 0.45	2	2	1
Kihei Canoe Club NKC220310	N	9:10	25.5	34.9	6.68	99.6	8.12	1.37 1.62 1.46	7	24	0

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

Kihei Canoe Club-Lots of people finishing Canoing. First time since storm that Turbidity very calm winds and waves.

NMC-Sample Location getting very rocky hard to get in and out.

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

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.57	57.5	565
Pre-sampling	0.05	6.65	57.2	365
Post-sampling	0.04	6.59	57.5	564

	# of samples	Relinquished to	Contact
0 11	" or samples	Actinquisited to	Contact
Sediment	-	-	-
Nutrients	5	YSK	T. Stark
Bacteria	_	_	_

Signature (Team Lead): Printed Name:

Team	North Kihei	Samplers	a Burnette	
Session	77	(Last Name, 1st Initial)	F Bahr	Y. St-Louis
Date	03/10/2022		F. bank	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH220310-N-1	Maalaea Harbor			7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC220310-N-1	Maalaea Condos			8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP220310-N-1	Haycraft Park	4		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP220310-N-1	Kealia Pond	LO/		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC220310-N-1	Kihei Canoe Club	₩		9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	
densh	Tiara Stan	