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

Hui O Ka Wai Ola

Session No: **Yerifiers** (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): **Post Date: Post Time:** 4/19/21 10:00 am 4/22/21 62 T-Stark M. Brown 3:00 pm

										<i>r</i> :
QA/QC Check	Inst #	Probe #	Last Cal Date			RE: ion Value	TO TO THE PERSON	OST: tion Value	Acceptable Range	Comments/ Notes QA?
Temperature	NIST 7 21	n/a	n/a	Std Val	27.2°C	<u>NIST</u> <i>Pl.</i> (∘c	NIST →°C	NIST 26.5 <sub>℃</sub>	± 0.6 °C of NIST	Compare to NIST Std value in tap water
•	2	1	n/a		27.4					pre temp indesse
	2	Z	n/a			27.4		26,8		pre temp industales
Salinity			3 months	Std Val	Tap water 0.32	9alin Std 112/20ate 35.0ppt	Tap water 0.32	Salin Std 11 2 20 date 35. 0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	2	1	2/15/21 2/15/21		0.33	35.2				
	2	2	2/15/21		0,33	35,4	0.33	35.5		
Dissolved Oxygen			_1 year	Std Val	10	0%	10	00%	± 5 %	
	2	1	11/2/20		98	.0				
	2	2	11/2/20		98	2	98.	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
	Z	)	4/19/21		6.99	9.28				
	2	2	419/21		7.01	9.99	7.02	10.00		
Turbidity	a		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
	1	n/a	3/8/21		0.05	6.64				
	7	n/a	3/8/21		0.05	6.49	0.07	6.49		

QA:

\* Are pre- and post within one week?

\* Delay times are ok?

\* Other equipment issues? \* Did post so late Hc used equipment to train new volunt en.

Standard #2-6.48 #1-6.66

Team	Kamaole	Samplers	Cyr, MARGIE 97.3	Meters and Pr	obes ID	
Session	62	(Last Name, 1st Initial)	GLAVES SCOTT 96.6	HQ40d: 2	210	0Q: 2
Date	4/20/21		Cyr, Rick 97.2	pH: 4	DO: 2	Salinity: 2

	Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity		Entero	People	(within 1	100 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal		(NTU)		CFU	water	beach	camp
Kalepolepo North NKN210420	N	0755	25.5	33.7	5.80	85.7	8.11	2.36	2.53	334148		0	0	0
Waipuilani Park KWP210420	N	8:15	26.0	32.8	5.64	83.6	8,11	7.89	6.81	7.42		0	3	0
Kihei South KKS210420	N	8:35	26.2	31.8	6.12	90.6	8,12	4.49	4.71	4.31		4	8	0
Kalama Park KKP210420	11)	8:50	24.2	34.8	6.25	93.9	8,13	5.23	5.96	5.65		+ clag	0	0
	10	O -										,		

Use the back of the form	ENTS (trends, equipment problems, en if needed.	
1 NKN-PROBES IN WA	TEL 0800 - 0802	155
2 probes in Ha	0820-0823-78h	Probe aconneded
probe in	TER 0800 - 0802 0820 - 0823 78h 838 - 0841 W.C.	o leading Taker
probe in	9:52 09600900	
	/ -	

*Sites no	longer	sampled - Mai Poina Oe	e Ia'u,
		Cove Park	

<sup>\*</sup>All 4 sites have possible freshwater flow

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.48	55.6	574
Pre-sampling	0.08	6.49	56.0	575
Post-sampling	0.04	6.47	55.8	574

	# of samples	Relinquished to	Contact
Sediment	-,	-,	-
Nutrients	4	des	M Brown

Signature (Teach Load):	Printed Name:	
MATTER SOLIN	MICOCOLOWN	_

Team	Kamaole	Samplers	Car M
Session	62	(Last Name, 1st Initial)	ohr R
Date	4/20/21		graves S.

Sample ID	Location Name	Sample taken? Duplicate sample? Time Volume Protocol Notes		Comments			
Nutrients							
NKN210420-N-1	Kalepolepo North			07.55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP210420-N-1	Waipuilani Park	9/		08:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS210420-N-1	Kihei South	6		08:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP210420-N-1	Kalama Park	<u>f</u>		08:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
				:			

Signature (Team Load):	Printed Name:
	Meth town
Mulle	- Maco Drown

Team	Wailea-Makena	Samplers	J. Dunning, M. Sharpe,	B. Sonsa	Meters and Prol	oes ID		
Session	62	(Last Name, 1st Initial)			HQ40d: 2		2100Q:	2
Date	4/21/21				pH: 4	DO: 2		Salinity: 2

			Salinity Dissolved Oxygen Turbi				Entero	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)		CFU	water	beach	camp
Cove Park KCP210421	N	8:35	25.8	31.2	6.23	91.02	8.07	2.14	2.17	2.09	_	3	2	_
S Maluaka Beach MMB210421	N	9:19	25.4	35,0	6.34	94.0	8,13	0.51	0.53	0.62		4	7	
Ahihi Kinau North MAN210421	N	9338	25,1	34.7	6.88	101.1	8.08	1,24	0.82	0.87		Ø	Ø	-
Ahihi Kinau South MAS210421	$\mathcal{N}$	(0:00	25,1	34.6	6.48	95.3	8.10	0.67	0.80	0.69	_	15	11	_

NOTES	AND	COMMENTS	(trends,	equipment	problems,	errors,	concerns).
Use the h	ack o	f the form if nee	eded				

V4 second turbidity on 1st test 0.53 upo

Sites with freshwater flow: Cove Park

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.48	55.6	514
Pre-sampling	0.06	6.46	55.7	575
Post-sampling	0.08	6.52	55.8	575

CHAIN OF CUS	STODY INFORMATI	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	1-
Nutrients	4	DHS	T. Stark
Bacteria		-	-

Signature (Team Lead): Printed Name:

Team	Wailea-Makena	Samplers	5. Duning	
Session	62	(Last Name, 1st Initial)		B. Sousa
Date	04/21/21		M. Sharpe	

KCP210421-N-1 Cove Park Image: Second Secon	Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
MMB210421-N-1 S Maluaka Beach S S Maluak	utrients							
MAN210421-N-1 Ahihi Kinau North D D 1. 38 125 ml bottles; 0.2 um disposable filters  Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	KCP210421-N-1	Cove Park	0/		8:35	125 ml		7/ -
Artini Kinati North bottles; 0.2 um disposable filters	MMB210421-N-1	S Maluaka Beach	5		9:19	125 ml		
	MAN210421-N-1	Ahihi Kinau North	Ω/		9:38			
MAS210421-N-1 Ahihi Kinau South D D 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	MAS210421-N-1	Ahihi Kinau South	Pd.		10:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
	diments	· · · · · · · · · · · · · · · · · · ·		<del></del>		<del></del>		
ediments					:	500 ml		
ediments   □ □   500 ml					1	500 ml		
□ □ 500 ml	<del></del>	<del> </del>	<del> </del>	<del>†</del>				

500 ml

500 ml		
Signature (Team L	nted Name: Ara Stark	

Team	North Kihei	Samplers	BUNNEME, 6.	BAHR	P	Meters and Pro	bes ID		
Session	62	(Last Name, 1st Initial)	WOLF A	,		HQ40d: 2		2100Q: 2	2
Date	04/22/21		,			pH: 4	DO: 2		Salinity: 2

				Salinity	Dissolved	Oxygen					Entero	Peopl	People (within 1	
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)		CFU	water	beach	camp
Maalaea Harbor NMH210422	~	7.45	24.8	35.1	6.25	91.7	8.14	1,17	0,99	110		0	_	
Maalaea Condos NMC210422	$\sim$	8:05	25.1	31.8	7.76	* 112.2	8.08	3.04	3.02	2.55		Ò	0	0
Haycraft Park NHP210422	Ĵ	8:26	25.1	34.2	6.70	98.4	8.11	7.58	7.59	7.50		$\bigcirc$	1	0
Kealia Pond NKP210422	M	8:45	25.1	35.7	6.70	99.1	8.16	0.75	0.69	0.46		0	4	0
Kihei Canoe Club NKC210422	N	9:05	25.9	34.3	6.60	98.2	8.12	3.04	2.81	3.64		0	3	0

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

PML PUTNERY BUTTLE MESTLAGELIEG AS MMC WOODEN BOX MESSELLE FROM KET (FOR PUTNERY EXTRACTSON) \* NMC DOS READERS OUT OF NORMAL MANGE— TOOK 2 NEADERS WETH SAME RESULT— SAME COMMENT FOR DO READERS

<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	Med	High
Standard	0.08	6.48	55.6	524
Pre-sampling	0.07	6.58	55.7	575
Post-sampling	0.07	6.50	56.0	575

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	5	145	M Brown				
Bacteria	-	-	-				

Signature (Team Lead):	Printed Name:	
dich	Tiara Stark	

Team	North Kihei	Samplers	Burnette 9.
Session	62	(Last Name, 1st Initial)	Wolf A
Date	04/22/21		Bahr F

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
ıtrients		*	<b>.</b>				:
NMH210422-N-1	Maalaea Harbor	•		07:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC210422-N-1	Maalaea Condos			08:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP210422-N-1	Haycraft Park	0		()8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP210422-N-1	Kealia Pond	e ,		08:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC210422-N-1	Kihei Canoe Club			09:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments							
				500 ml			
				500 ml			
				500 ml			
				500 ml			

Lava Stark	Signature (Team Lead):	Printed Name:	
	Mara Star	11 ava Stark	