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



Post Time: Verifiers (post-sampling):
T. Stark I M. Brown Post Date: Pre Time: Session No: Verifiers (pre-sampling): Pre Date: 10 7/21 10/4/21 8:00 am

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 26.9 °C	NIST 26.6°C	NIST — °C	NIST 29.5 °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	3	10/14/22		27.1					Lab Temp Pre: 25.6°C post: 23.7°C	
	2	2				26.7		29.6		'	
Salinity			3 months	Std Val	<u>Tap water</u> 0.20	Salin Std SS 2 date 23.6 ppt	Tap water 0.20	Salin Std 8 S 21 date 33.6 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	2	3	8/2/21		0.19	33.8					
	2	2	9/13/21		0.18	33.9	0.14	33.7			
Dissolved Oxygen			1 year	Std Val	10	0%	10	00%	± 5 %	Calibrated both following protocol but aidn't replace penson, etc.	
	2	١	11/2/20		95.	7				Will properly calibrate before next session.	
	2	2	11/2/20		97	, 6	99	.0			
pН			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	
	2	4	10/4/21		7.01	9.98	7.02	10.00			
	2	3	10/4/21		7.00	9.99					
Turbidity			3 months	Std Val	<u>BLANK</u> <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	6/2/21		0.03	6.24			1	Sta #1: 6.21	
	2	n/a	6221		0.04	6.49	0.04	6.43		Sta#2: 6.48	

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

* Other equipment issues?

Lab: NMS

Team	Kamaole	Samplers	Hary:		Meters and Prol	bes ID		
Session	70	(Last Name, 1st Initial)	Mayee	I	HQ40d: 2		2100Q: 2	2
Date	10/05/2021		•	r	оН: 4	DO: 2		Salinity: 2

	6			Salinity	Dissolved	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	Turbidity (NTU)		water	beach	camp	
Kalepolepo North NKN211005	N	7:48	25.5	341	5,71	84.5	8,05	1:48	1,92	1.89	2	5	8
Waipuilani Park KWP211005	N	8:08	25.0	34.3	5.71	83.9	8.05	5.91	4.88	5.20	8	3	D
Kihei South KKS211005	N	8.25	25,9	33.9	5,22	77.8	8.09	4.87	4.40	4.58	0	2	2
Kalama Park KKP211005	N	8:45	26,2	35.4	6.38	a.3	8-13	7-19	6.76	6.99	0	3	6

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.	TURBIDITY VER	LIFICATION			
		Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
NEW - E Swinner Win B of Sanging	Standard	0.03	648	55.6	54
NKN - Z Swinner Win B'of sanging in 1:54 7:56 toole Ind 20% 84.2	Pre-sampling	0.05	6.47	55.7	558
	Post-sampling	0.04	6.42	56.0	558
KWP 8.13 out 8:15	CHAIN OF CUST	ODY INFORMATI	ON		
		# of samples	Relinquishe	ed to	Contact
KKS (n. 8:30 till 2.1 . 70.	Sediment	7	-		-
oct 8:33 lisk he fra 78 8	Nutrients	4	AMS	MI	5 m
KKP in 5:68 648.53	Bacteria	-	-		_
out 8.53	Signature (Team I	ead):	Printed N	ame:	<u></u>
Sites with potential for freshwater flow: All	Matel	b/UR	Med	th b	rown

Team	Kamaole	Samplers	Hecht	H.	
Session	70	(Last Name, 1st Initial)	Cur	M.	
Date	10/05/2021		Brown	M.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
lutrients							
NKN211005-N-1	Kalepolepo North			7:48	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	***************************************
KWP211005-N-1	Waipuilani Park			8:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS211005-N-1	Kihei South	6		8.25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP211005-N-1	Kalama Park	e e		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
	0	500 ml	
		500 ml	
	0	500 ml	·
		500 ml	

Signature (Team Leady:	Printed Name:	
11/1/11/11	Mitch Krause	
Mann &	The milan brown	-

Team	Team Wailea-Makena Samn	Samplers	and A Shamaki	Meters and P	Probes ID		
Session	70	(Last Name, 1st Initial)	wolf A, SharpeN	HQ40d: 2		2100Q:	2
Date	10/06/2021	_ ist initial)		pH: 4	DO: 2		Salinity: 2

				Salinity	Dissolved	Oxygen		142			People	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
Cove Park KCP211006	И	8;55	24.3	33.2	4.39	95.2	8.09	12.1	12.8	9.63	8	B	2
S Maluaka Beach MMB211006	N	9:30	265	35.6	6.29	95.7	8.14	1.93	2.20	2.96	12	12	0
Ahihi Kinau North MAN211006	N	9:50	26.2	35.7	6.83	103.2	8.12	1.03	1.99	1.63	2	4	0
Ahihi Kinau South MAS211006	N	10:05	26.0	35.5	6.51	98.3	8.14	2.27	2.18	1.99	13	9	0

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

KCP: dogs in t120 @ Collection area

Beach side camp site

MMB short break @ 3'

* Wanted to Calibrate Turb.#2 on 10/6/21 以C 第 0.16 NTU difference between high standard but Cal. stds. at WM lab. Sites with potential for freshwater flow: Cove Park

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.04	6.48	55.6	574
Pre-sampling	0.04	6,46	55.7	558
Post-sampling	0.04	10.43	56.0	558

CHAIN OF CUS	STODY INFORMATION	ON .	
	# of samples	Relinquished to	Contact
Sediment	_	-	-
Nutrients	4	NMS	T. Hank
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:	
drath	Tiara Stade	

Team	Wailea-Makena	Samplers	WOIF, A.	
Session	70	(Last Name, 1st Initial)		
Date	10/06/2021		Sharpe, N.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP211006-N-1	Cove Park	0		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB211006-N-1	S Maluaka Beach	0		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN211006-N-1	Ahihi Kinau North	v		9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS211006-N-1	Ahihi Kinau South	V		10:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		- W
					500 ml		*
					500 ml		

Signature (Team Lead):	Printed Name:	
dealt	Tiary Stark	
4		

A. Wolf T. Stark Meters and Probes ID Team North Kihei Samplers (Last Name, 2100Q: 2 HQ40d: 2 Session 70 1st Initial) DO: 2 Salinity: 2 pH: 4 10/07/2021 Date

				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)	(%) 8-8.3	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
Maalaea Harbor NMH211007	N	1:55	24.6	35.4	6.09	89.3	8.10	1.07		1.03	0	0	0
Maalaea Condos NMC211007	N	8:15	24.9	34.7	7.38	108.3	8.13	3.86		3.44 2.68	0	0	8
Haycraft Park NHP211007	N	8:45	24.9	35.3	6.73	99.1	8.12	4.37	4.20	3.72	3	1	Q
Kealia Pond NKP211007	N,	9:10	25.0	35.9	6.72	99.5	8.18	1.43	0.96	1.18	2	1	O
Kihei Canoe Club NKC211007	\wedge	9:34	27.3	35.4	6.63	101.9	8.14	3.59	3.05	3,06	\Diamond	0	0

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

Use the back of the form if needed.

**Eledid Med. pre-sumpling but some

NMH: boost (N50 peop.) Sitting right by sumpling area

Very windy

NMP: 2 Substantive flags - assume divers

present. Windy!! Took 4th furb.

reading 7 Mas 0.89 NTM.

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

TURBIDITY VER	drication			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.04	6.48	55.6	574
Pre-sampling	0.04	6.48	56.0	588
Post-sampling	0.04	6.43	55.9	558

And the same and the same control of the same	# of samples	Relinquished to	Contact
	# 01 Samples	Remiquished to	Contact
Sediment	-	-	
Nutrients	5	NMS	T.Stark
Bacteria	_	-	

Signature (Team Lead): Printed Name:

Tiara Stark

Team	North Kihei	Samplers	A. WOLF	
Session	70	(Last Name, 1st Initial)		
Date	10/07/2021		T. Stark	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
utrients							
NMH211007-N-1	Maalaea Harbor	4		7:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC211007-N-1	Maalaea Condos	8		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP211007-N-1	Haycraft Park			8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP211007-N-1	Kealia Pond	M		9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC2211007-N-1	Kihei Canoe Club	₩		9:34	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments							
					500 ml		
					500 ml		

Sediments			是一个人,不是一个人,我们的一个人,就是一个人的一个人。 第一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的
		500 ml	

Signature (Team Lead):	Printed Name:	
finth	Trava starle	