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

HIII O Na Wai Ola

Session No: Verifiers (pre-sampling): Pre, Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time:

60 M. Brown T. Staric 3/8/21 1:05am M. Drom 3/11/21 12:15pm

QA/QC Check	Inst #	Probe #	Last Cal Date			RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	n/a	Std Val	NIST 23.7 _{°C}	NIST 23.8 _{°C}	NIST C	<u>NIST</u> 25.3 ℃	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	1	n/a		23.6		_			MIST exp: 7/8/21	
	2	2	n/a			23.6		24.9		lab-toma The Ise p	ast
Salinity			3 months	Std Val	Tap water 0-30	Salin Std 11220 date 35.0 ppt	Tap water	Salin Std /1/2/20 date 35.0 ppt	± l ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	Z	١	2/15/21		0.32	35.1	_	_			
	2	2	2/15/21		0.32	35.2	0.32	35.5			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	2	İ	11/2/20		98.0	0 %.					
	2	2	11/2/20		98.3	b %	160.	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	
	2	3	3/8/21		7.04	9.99		—			
	2	4	3 8 2		7.01	10.00	7.02				
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	<u>BLANK</u> <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	3/8/21		0.08	6.66				#1 std: 6.66	
	2	n/a	3/8/21		0.06	6.48	0.20	6.49		#2std: 6.48	

QA:

* Delay times are ok?

* Other equipment issues?

Lab: DHS

^{*} Are pre- and post within one week?

 Team
 Kamaole
 Samplers
 97.2 tharry

 Session
 60
 (Last Name, 1st Initial)
 97.3 6001

 Date
 3/9//21
 98.1 Margie

Meters and Probes ID

HQ40d: 2

2100Q: 2

pH: 4

DO: 2

Salinity: 2

	Ctucomo	Streams Time		Salinity	Dissolved Oxygen		-11		T		Entero	People (within 100 ft)		
Location Name Sample ID	Streams Time Flowing (of (Y/N) collection		Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		CFU	water	beach	camp
Kalepolepo North NKN210309	N	8.02	24.0	33.5	6.33	90.7	8.16	1.06	1.33	1.38		0	t	0
Waipuilani Park KWP210309	N	8.23	23.7	32.3	5.93	83.9	8.08	12.30	10.7	9.12		0	3	0
Kihei South KKS210309	N	8.40	24.4	33.8	5.83	84.2	9.13	610	5.81	4.87		5	10	0
Kalama Park KKP210309	N	8.57	24.5	34.4	6.A7	94.1	8.13	7.03	6.12	6.53		0	2	0

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

Use the back of the form if needed.

Mo stream Flow. KN. Acod 8:10 IN HLD 8:13 Kend

Wai personi Creek Dry
Read 8:19 - 8:31 Read

8:46 - 8:49 Read

9:02 9:05

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

Sites with freshwater flow: Kalepolepo North, Waipuilani Park, Kihei South, Kalama Park

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	6.48	55.6	574
Pre-sampling	0,09	6.43	55.1	572
Post-sampling	0.13	6.46	55.5	574

CHAIN OF CUS	STODY INFORMATION	ON	111
	# of samples	Relinquished to	Contact
Sediment	-,	-,-	
Nutrients	4	d145	MBrom
	/		

Signature Team	Lead):
	1 8
1100	Una

Printed, Name:

Motel Brown

took post sampling blank reading 4 times in wifine. Consistently

ast undated February 2020

Team	Kamaole	Samplers	Hecht H.
Session	60	(Last Name, Ist Initial)	Graves S.
Date	3/9//21		CAR M.

Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Kalepolepo North	ď		8:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Waipuilani Park	Ø		8:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Kihei South	4	а	8,40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Kalama Park	Ø		8:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
	Kalepolepo North Waipuilani Park Kihei South	Kalepolepo North Waipuilani Park Kihei South	Kalepolepo North Waipuilani Park Kihei South	Kalepolepo North Single S	Kalepolepo North Waipuilani Park Kihei South Kihei South Sample? Sib2 125 ml Sib2 125 ml	Kalepolepo North Sibara 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Kihei South Sibara Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters

Signature (Team Lead): Printed Namé: Brown

Team	Wailea-Makena	Samplers	2. Dunning, B. Sousia, M. Sharpe	Meters and	Probes ID		
Session	60	(Last Name, 1st Initial)	•	HQ40d: 2		2100Q: 2	2
Date	03/10/21			pH: 4	DO: 2		Salinity: 2

				Salinity	Dissolved	Oxygen		Turbidity (NTU)		Entero	People (with		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				CFU	water	beach	camp
Cove Park KCP210310	. W	8.40	25,0	3/19	6.06	87.3	8.06	Z,00	1.78	1.72		1	1	Ø
S Maluaka Beach MMB210310	\sim	9:10	24.3	<i>3</i> 5.3	6,67	97.4	8.16	0.53	0.55	0.52		/2	6	Ø
Ahihi Kinau North MAN210310	N	9130	25.0	34.9	7.62	111.6	8.17	1.41	1.48	1,20		Ø	3	P
Ahihi Kinau South MAS210310	N	9:48	25.4	35.D	6.75	99.6	8.14	1.20	1.52	1.43		3	35	P

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

Cove park-Dog in water; deficated on beach. Ahihi Kinau +2 % reading 111,4%02 Lowtide

Sites with freshwater flow: Cove Park

* Could not get post-sampling blank below 0.21. Tried cleaning with oil, etc. - Trang Stark

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.13	6.48	55.6	574
Pre-sampling	0.13	6.37	55.2	575
Post-sampling	0.21	6.48	55.8	573

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment	-	-	-					
Nutrients	4	DHS	T. Stark					
Bacteria	-	-	-					

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

Team	Wailea-Makena	Samplers	J. Dwning
Session	60	(Last Name, 1st Initial)	B. Sousa
Date	03/10/21		M. Sharpe

Nutrients KCP210310-N-1 Cove Park D	Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
MMB210310-N-1 S Maluaka Beach O: O 125 ml bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters MAN210310-N-1 Ahihi Kinau North O: 30 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	lutrients						.; *	
MAN210310-N-1 Ahihi Kinau North D D D D D D D D D D D D D D D D D D D	KCP210310-N-1	Cove Park	15/		8:40	125 ml		
MAS210310 N 1 Abibi Kingu South	MMB210310-N-1	S Maluaka Beach	Ŋ		9:10	125 ml		
	MAN210310-N-1	Ahihi Kinau North	152 ∕		9:30	125 ml		
bottles; 0.2 um disposable filters	MAS210310-N-1	Ahihi Kinau South	o⁄		9:48	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
	ediments		Y	<u></u>	· · ··			
ediments			0			500 ml		
Sediments D D 500 ml						500 ml		

500 ml

500 ml

Signature (Team Lead):	Printed Name:	
diall	Tiarg Stark	

Team	North Kihei	Samplers	BUNDENE	6.
Session	60	(Last Name, 1st Initial)	Bahr, F.	
Date	03/11/21		WOLLA	

Meters and Probes ID						
HQ40d: 2		2100Q: 2	2			
pH: 4	DO: 2		Salinity: 2			

				Salinity	Dissolved	Oxygen					Entero	Peopl	e (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
Maalaea Harbor NMH210311	\sim	7:45	24.4	34.9	6-25	90.9	8.14	0.54	0.50	0.45		0	0	0
Maalaea Condos NMC210311	N	8:05	24.5	33.8	6.84	98.8	8.07	2.19	2.56	2.77		0	0	0
Haycraft Park NHP210311	\mathcal{N}	8:20	24.7	34.4	6.64	96.7	8.20	3.15	3.39	3.14		Ø	/	Ŏ
Kealia Pond NKP210311	\sim	8:40	24.7	35.5	6.82	99.8	8.17	0.61	0.54	0.59		0	2	0
Kihei Canoe Club NKC210311	N	9:00	25.3	34.7	6.67	98.2	8.14	0.67	0.67	0.62		6	1	0

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

* Carifget turbidity blank below 0.22

ABOUT ZO STEW ACTEMPTS TO MESAMME THE BLANK WINED WITH SILICON CLOTH NUMEROUS (IMES.

HO40 d AZ METEN TUTES DEDN'T TAKE NEADER 65 ENTER PUSHERS NEAD BUTTON A SECOND TIME.

HANGES OUT ONE OF THE INFORMATION CARDS

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

TURBIDITY VERIFICATION										
	Blank (must be <0.10)	Low	Med	High						
Standard	0.22	6.48	55.6	5,74						
Pre-sampling	0.17	6.51	55.6	574						
Post-sampling	0.20	6.49	55.8	574						

CHAIN OF CUSTODY INFORMATION									
	# of samples	Relinquished to	Contact						
Sediment	-	-	-						
Nutrients	5	1145	MBrown						
Bacteria	-	-	-						

Signature (Feam Lead)://	Printed Name:
MIII,	Myth Know
Mun m	The Color

Team	North Kihei	Samplers	Runette G.
Session	60	(Last Name, 1st Initial)	Buhn t.
Date	03/11/21		Wolf A

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
atrients							
NMH210311-N-1	Maalaea Harbor	Ø		07:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC210311-N-1	Maalaea Condos	d		08:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP210311-N-1	Haycraft Park	Œ		08:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP210311-N-1	Kealia Pond	Q		08:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC210311-N-1	Kihei Canoe Club	₽ [′]		09:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments						The state of the s	
——————————————————————————————————————			·				
					500 ml		
					500 ml		
			 	 			

500 ml

500 ml

Signature (Team Leagh):	Printed Name:	1/1	
3/11/1	1	Mich	Kn
11/11/	10m	myen	DIOW !