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



Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time: 47 J. STRICKLAND 6/12/20 10:45

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: tion Value		OST: tion Value	Acceptable Range	Comments/ Notes	QA
Temperature	NIST	n/a	n/a	Std Val	33.3 <sub>°C</sub>	<u>NIST</u> 31.4 °C	NIST 30,0 <sub>C</sub>	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	1	i	n/a		33,3		29.8				
	l	2	n/a			31.6			6	127 post: 23.0	
Salinity			3 months	Std Val	<u>Tap water</u> <b>0.13</b>	Salin Std 2 3 date 33.1 ppt	<u>Tap water</u> 0.13	Salin Std date	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	(	5/4/20		0.13	33.1	0.13	32.8			
	ĵ	2	5 14/20		51.0	33.4					
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	1	1	10/18/19		100-	3	98	8%			
	Í	2	10/18/19		101.	2					
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	
	)	3	6/8/20		7.00	10.02	698	10.06			
	1	4	6/9/20		7.00	10,02		-			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 6.95 NTU	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	5/4/20		0.04	6.65	0.04	6.75			
		n/a				, , ,	0.01	0, 10			

QA:

<sup>\*</sup> Are pre- and post within one week?

<sup>\*</sup> Delay times are ok?

<sup>\*</sup> Other equipment issues?

Team	Team Kamaole	Samplers	Str Tchland, J	Meters and Probes ID				
Session	16 47 JS	(Last Name, 1st Initial)		HQ40d: 1		2100Q: 1		
Date	6/9/20			pH: 3	DO: 1	Salinity: 1		

	G.			Salinity	Dissolved	l Oxygen					Entero	People	(within 1	100 ft)
Location Name Sample ID	Streams 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
Kalepolepo North NKN200609	N	8:05	26.4	33.4	5.94	88.6	8.10	2.87	2.59	2.89	0	O	2	0
Waipuilani Park KWP200609	~	8:45	26.7	31.6	5,97	88.7	8.02	20.2	21.2	71.1	0	0	0	0
Kihei South KKS200609	~	9:10	27,9	32.9	6.12	93.5	80.08	11.0	11.9	11.4	10	1	3	0
Kalama Park KKP200609	N	9:35	27.5	34.2	6.47	99.0	8.11	8.44	8.85	8.53	0	i	3	0
Cove Park KCP200609	N	9:55	27.6	30.0	6.86	102.6	8.09	795	19.0	23.2	6	7	0	σ
Mai Poina Oe Iau NMP200609	N	1015	28.1	32,9	6.50	100,9	8.10	16.4	16.0	17.9	41	١	2	Q

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

KKY-BEACH FISHEX MAD REELING
IN FISH, NOTICED BLOOD TRAIL
FROM FISH AFTER SAMPLE
TAKEN
NMP-CONSTRUCTION-HOTEL
BEING BUILT ABOUT
100' TO THE SOUTH OF SITE

TURBIDITY VER	IFICATION	N. C. C.		
	Blank (must be <0.10)	Low	Med	High
Standard	0-04	6.68	60.6	673
Pre-sampling	0.04	6.78	60.5	623
Post-sampling	0.05	6.66	60.7	621

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	6	290	J. STRICKLAS
Bacteria	6	rm1	J. STRICKLAS J. STRICKLA

Team	Kamaole	Samplers	STRICKLAND, J
Session	48 47 J.S	(Last Name, 1st Initial)	
Date	6/9/20		

Sample ID	Sample ID Location Name		Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
NKN200609-N-1	Kalepolepo North	tb		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP200609-N-1	200609-N-1 Waipuilani Park						
KKS200609-N-1	Kihei South	F.		9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP200609-N-1	Kalama Park	<b>E</b>		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP200609-N-1	Cove Park	Ø		9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP200609-N-1	Mai Poina Oe Iau	6		10:25	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:
In Sh	JAMES STRICKLAND

Team	Makena Samplers J. STRICKLAND	Meters and Probes ID					
Session	47	(Last Name, 1st Initial)	O, Streeter Boo	HQ40d: 1		2100Q:	1
Date	6/10/20			рН: 3	DO: 1		Salinity: 1

	Ctussuus	TO:		Salinity	Dissolved	Oxygen					Entero	People	e (within 1	100 ft)
Location Name Sample ID	Streams 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
Makena Landing MML200610	N	8:10	26.1	34.5	6.67	99.8	8.11	2.56	2,42	2,84	10	O	O	O
S Maluaka Beach MMB200610	N	8:50	26.9	34.6	6.61	100.4	8.12	0.97	1.39	1.24	0	1	4	9
Oneuli MON200610	7	2,072	27.9	34.3	7.09	100.4	8.18	1.78	1.95	2,20	0	6	Q	0
Ahihi Kinau North MAN200610	2	9:35	26.4	34.8	7.13	107.4	8.13	0.93	1.16	1.02	0	0	0	O
Ahihi Kinau South MAS200610	N	10:08	26.4	34.8	6.83	103.0	8.19	1.31	1.29	1.31	0	0	20	0

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

MON- GATE WAS CLOSED SAYING

PARK CLOSED, I TALKED TO

PARK RANGER AT AHIHI

# HE SAIO WE COULD SAMPLE

THERE, SAMPLE WAS TAKEN

AFTER MAS.

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	6.6 Low	Med	High
Standard	0.05	6.73	60.6	623
Pre-sampling	0.05	6.73	60.6	623
Post-sampling	0.04	6.74	60.5	621

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	J. STRICK
Bacteria	5	NMC	J. STRICKI J. STRICKI

Signature (Team Lead):

**Printed Name:** 

Gw Sh

Jones Strickland

Sites with streams/outflows: Makena Landing

Team	Makena	Samplers	T (TDIVIVIAND	
Session	47	(Last Name, 1st Initial)	0,21161(N(ADO	
Date	6/10/20			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
MML200610-N-1	Makena Landing	ф		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB200610-N-1	South Maluaka Beach	ø		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON200610-N-1	Oneuli	ίθ		10:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN200610-N-1	Ahihi-Kinau North	\$		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS200610-N-1	Ahihi-Kinau South	₩.		10:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments					TO FRANCE		
					500 ml		
A					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead);

Strickland

**Printed Name:** 

omes

Team	North Kihei	Samplers	Staduland J.	Meters and	Meters and Probes ID				
Session	47 (Last Name, 1st Initial)	HQ40d: 1		2100Q: 1					
Date	6/11/2020		Stark, 1.	pH: 3	DO: 1	Salinity: 1			

	Cı			Salinity	Dissolved	l Oxygen					Entero	Peopl	e (within	100 ft)
Location Name Sample ID	Streams 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 NMH200611	7	8:00	25.2	34.3	6.34	93.3	8.09	2.40	2.03	2.83	10	0	0	0
Maalaea Condos NMC200611	N	8:30	25.6	33.2	7.10	104.7	8.08	4.09	4.16	4.47	0	0	0	0
Haycraft Park NHP200611	N	8:52	25,4	34.7	6.81	100.9	8.14	4.36	5.11 <del>6.23</del> 68		20	0	10	2
Kealia Pond NKP200611	7	9:15	24.1	35.0	6.68	100.3	8:15	2.03	1.74	2.26		3	9	\$
Sugar Beach NSB200611	2	9:45	27.1	34.8	6.58	100.3	8.13	3.4	3.53	3.23	0	Ø	3	Ø
Kihei Canoe Club NKC200611	12	10:07	26.9	34.6	6.64	100.8	8.13	7.11	3.79	3.75	20	Ø	4	\$

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

Use the back of the form if needed.

NMH: Guyler windy

NMC: Somewhat windy, sunny

NHP: windy, people fishing, some trash on

NKP: 2 kids, I dog; super wrdy

beach.

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.68	60.6	623
Pre-sampling	0.04	6.66	60.4	622
Post-sampling	0.05	6.76	60.6	620

CHAIN OF CUS	STODY INFORMATI	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	6	NMS	T. Stark
Bacteria	G	NMS	T. Stark

Sites with streams/outflows: Kealia Pond

Sig	nature	(Team	Lead):	
0	na	al	Ala	
	00			

Printed Name:
Trava Stark

Team	North Kihei	Samplers
Camian	47	(Last Name,

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH200611-N-1	Maalaea Harbor	8		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC200611-N-1	Maalaea Condos	d		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP200611-N-1	Haycraft Park	E E		8:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP200611-N-1	Kealia Pond	4		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB200611-N-1	Sugar Beach	G G		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC200611-N-1	Kihei Canoe Club	□ □		10:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		
				Signat	ure (Team	Lead): Printed Name:	the

Team	Wailea	Samplers	STARK, T	Meters and Probe	es ID	
Session	47	(Last Name, 1st Initial)	(Thirtie)	HQ40d: 1	21000	Q: 1
Date	6/12/2020		STRICKLAND, J	pH: 3	DO: 1	Salinity: 1

	C.			Salinity	Dissolved	l Oxygen					Entero	Peopl	e (within	100 ft)
Location Name Sample ID	Streams 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
Kilohana Dr WKD200612	N	8:05	26.0	34.7	6.70	99.9	8.15	1.45	1.19	1.31		4	3	0
Keawakapu Beach WKB200612	N	8:30	26.4	34.9	6.71	101.0	8.16	0.86	0.60	0.88		0	4	400
Ulua Beach WUL200612	N	8:55	26.4	34.6	6.74	101.3	8.16	0.76	0.78	0.693		8	5	Ø
Palauea WPL200612	N	9:15	26,9	34.7	6.69	101.4	817	1.42	1.83	1.70		2	4	Ø
Poolenalena WPO200612	7	9:35	27.1	34.9	6.64	101.2	8-17	0.73	1,02	1.13		13	2	9 ter

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

Who - 4 poles out by campers

NUL: does in water, subadirers bousses

WPO - 6 fishing poles hear sample

Site

TURBIDITY VER	IFICATION			The same of
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.68	60.6	623
Pre-sampling	0.04	676	605	627
Post-sampling	0.04	6.75	60.7	622

CHAIN OF CUSTODY INFORMATION					
	# of samples	Relinquished to	Contact		
Sediment	-	-	-		
Nutrients	5	NMS	T. Saile		
Bacteria	-	-	-		

Signature (Team Lead):

Printed Name:

Tidra Stark

Team	Wailea	Samplers	Stark, T.
Session	47	(Last Name, 1st Initial)	Strickland, J.
Date	6/12/2020		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD200612-N-1	Kilohana Dr	B		B:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB200612-N-1	Keawakapu Beach	0		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL200612-N-1	Ulua Beach	DV.		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL200612-N-1	Palauea			9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO200612-N-1	Poolenalena	Ø		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		

500 ml

500 ml	
Signature (Team Lead):	Printed Name: Transtarle