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



				vi ter (-tling):	Post Date:	Post Time:
Session No:	Verifiers (pre-sampling): T, Story J, Stockhood	Pre Date:	Pre Time:	Verifiers (post-sampling):	12/10/20	1.11

QA/QC Check	Inst#	Probe #	Last Cal Date		PR Verification		POS Verificati		Acceptable Range	Comments/ Notes	QA?
Femperature	NIST	n/a	n/a	Std Val	NIST 26.6°C	<u>NIST</u> 26.5 _℃	NIST °C	NIST H.l.c	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	l	1	n/a		26.5		_	110			
		2	n/a			26.4		25.8			
Salinity			3 months	Std Val	<u>Tap water</u> 0.30	Salin Std UNWdate 35.0 ppt	Tap water	Salin Std 11 2/2 date 22 Opt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1		11/16/20			35-2	_	_			
	1	2	11/16/20		0.32	35.0	0.32	35.3			-
Dissolved Oxygen			1 year	Std Val	10	100%		00%	± 5 %		
	1		11/2/20		101.		_				
	2	2	11/2/20		100.3	り	100	.3			
pН			3 weeks	Std Val	pH 7.00	рН 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	12/7/20		7.01	9.99	_				
	2	4	12/1/20		7.01	9.99	7.01	9.98			
Turbidity			3 months	Std Val	<u>BLANK</u> <0.1	LOW 1-10	BLANK <0.1	LOW 1-10 NTU	Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1		ulu las		0.00	NTU		NIU		LOW STD: 6.60	1
	1	n/a	11/16/20		0.09	6.73	0.00	6.41		LOW STD: 6.39	
	2	n/a	11/16/20		U.U T	0.11	0.00	07-11			

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

Team Kamaole	Kamaole Samplers Cyr, k 97.1	Cyr. K 2+.1	Meters and Pro			
Session 56	(Last Name,	Name, Cyk. M 97.3	HQ40d: 2	21	2100Q: 2	
Date 12/8/20	1st Initial)	GRAVES, S. 96.6	pH: 4	DO: 2	Salinity: 2	

				Salinity	Dissolved	Oxygen		•			Entero	People	People (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	
Kalepolepo North NKN201208	N	0750	25.5	34.3	5.76	85,9	8.11	7.13	1.16	1.31		Ø	Ø	Ø	
Waipuilani Park KWP201208	N	08:15	24.3	32.3	5.95	88.1	3.08	18.4	17.6	18.2		Ø	2	Ø	
Kihei South	N	8:36	25,5	34.4	5.98	88.6	8.10	5.5	5.19	5,84		l	2	Ø	
Kalama Park KKP201208	W	8:54	25.5	34.5	6.30	93.2	8.09	5.47	5.33	5,88		0	1	0	
Cove Park KCP201208	\sim	9:10	26.2	34,5	5.94	89.3	8.12	3.61	3.28	3.18		l	Ò	0	

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

HOURD Meter not operating according to worman proceedures difficult to start/standardize stuts of on its own. New botteries added

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

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.08	6.516.40	56.0	562
Pre-sampling	0.09	6.42	55.7	562
Post-sampling	0.06	6.39	55.8	562

	# of samples	Relinquished to	Contact
Sediment			-
Nutrients	5	dets 7	MBrown

Signature (Team lead):	Printed Name:
My letter	Mutch prown

Team Kamaole	Samplers	Cyr	R								
Session 56	(Last Name, 1st Initial)	CAP, M,									
Date 12/8/20		Healt	K								
		graves	Durlingto								
Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments				
Nutrients		/									
NKN201208-N-1	Kalepolepo North			7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters					
KWP201208-N-1	Waipuilani Park	0		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters					
KKS201208-N-1	Kihei South	D/		8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters					
KKP201208-N-1	Kalama Park	9		8:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters					
KCP201208-N-1	Cove Park			9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters					
		_									

Sediments				
			500 ml	
			500 ml	
			500 ml	

125 ml

Signature (Pean Lead):	Printed Name:
10/1/1/1/1/1	Can Wholeh Pro
10 min 1	Mh Muter Proten

Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters

Team	Wailea-Makena	Samplers	J. Dunning, M. Sharpe, B. Souza	Meters and Probes ID				
Session	56	(Last Name, 1st Initial)	O	HQ40d: 2		2100Q:	2	
Date	12/9/20			pH: 4	DO: 2		Salinity: 2	

				G. I'. '4	Dissolved	Oxygen					Entero	Peopl	e (within	100 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)		CFU	water	beach	camp	
Kilohana Dr WKD201209	N	7:57	25.4	35.2	6.72	99.9	8.15	2.12	1.37	0.99	-	2	4	0
Keawakapu Beach WKB201209	N	8:20	25.9	35,4	6.62	99.1	8.14	0.55	0.73	0.58	_	a	5	ø
Ulua Beach WUL201209	N	8:37	25.8	35.3	6.71	99.9	8.12	1.43	1.43	1.11	_	4	8	Ø
S Maluaka Beach MMB201209	N	9:02	25.7	35.2	6.55	97.8	8.15	1.22	0.82	1.00	_	Ø	9	8
Ahihi Kinau North MAN201209	N	9:23	25.9	35.2	7.12	10 les 5	8.14	1.53	1.87	1.71	_	2	Ø	Ø
Ahihi Kinau South MAS201209	N	9:41	26.1	35.2	6.61	99.4	8.14	1.21	1.06	0.94	_	Ø	Z	ϕ

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

A Retested pre-sample after cleaning vial note: batteries failed in HD40D-replaced batteries

TURBIDITY VERI	FICATION			
	Blank (must be <0.10)	6.30 Low L.S	Med	High
Standard	0.06	6.40	56.0	562
Pre-sampling 9	0.1508	6.41	55.4	561
Post-sampling	0.09	6.39	55.8	562

CHAIN OF CUSTODY INFORMATION					
	# of samples	Relinquished to	Contact		
Sediment	-	-	-		
Nutrients	6	DHS	T.Stark		
Bacteria	-	-	-		

Signature (Team Lead): Printed Name:

Tara Stark

Team	Wailea-Makena	Samplers	J. Dunning, M. Sharpe, B. Souza
Session	56	(Last Name, 1st Initial)	
Date	12/9/20		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
lutrients							
WKD201209-N-1	Kilohana Dr			7:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB201209-N-1	Keawakapu Beach	B		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL201209-N-1	Ulua Beach	A		8:37	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB201209-N-1	S Maluaka Beach	O/		9:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN201209-N-1	Ahihi Kinau North			9:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS201209-N-1	Ahihi Kinau South	Q/		9:41	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	, , , , , , , , , , , , , , , , , , ,

Sediments			
		500 ml	

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

Team	North Kihei	Samplers	BUNNETTE, C
Session	56	(Last Name, 1st Initial)	BAHN, F.
Date	12/10/20		13.

NIVETTE, G	Meters and Probes ID			
un F.	HQ40d: 2 2		2100Q: 2	
, .	pH: 4	DO: 1	Salinity: 2	

	图 集 5 %			Salinity	Dissolved	Oxygen			Entero	Peopl	le (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 NMH201210		2830	25.5	35.1	5.93	88.0	8.12	0.97 6.98 0.98		6	0	0
Maalaea Condos NMC201210		6815	25.4	33.8	6.52	96.0	8.03	4.794.24 4.38		Ó	0	Ó
Haycraft Park NHP201210		0830	25.7	34.4	6.40	_	8.11	8.727.78 7.50	,	Ó	0	9
Kealia Pond NKP201210	N	0851	25.8	35,4	6.68	99.9	8.16	0.67 0.61 0.55	1	0	3	0
Kihei Canoe Club NKC201210	,	0912	26.6	34.8	6.37	96.4	8.12	1.32 1.50 1.67		1	2	0

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

HO40d meter worked well today - pushing lightly on the READ Button is possibly helpful

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.09	6.39	56.0	562,
Pre-sampling	0.09	6.38	55.3	565
Post-sampling	607	6.41	55.9	662

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment		1-1	, ,
Nutrients	6	des	MBrown
Bacteria	-	-	-

Sites with stream outflow: Kealia

Signature (Team Lead):	Printed Name:
MIT A P.	1111. I la Rica de la
Mills Am	MILTON OVOUS
1/1/07	

Team	North Kihei	Samplers	Burnette 6
Session	56	(Last Name, 1st Initial)	216
Date	12/10/20		Bleho 1.

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
utrients							
NMH201210-N-1	Maalaea Harbor			8,00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC201210-N-1	Maalaea Condos			8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP201210-N-1	Haycraft Park			8.30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP201210-N-1	Kealia Pond			8:51	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC201210-N-1	Kihei Canoe Club			9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	V = V = V = V = V = V = V = V = V = V =
		500 ml	
		500 ml	
		500 ml	

Signature (Team Lead):	Printed Name:
Mish - I	Westell & rown
Month	- William Plans