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



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

43 MBrown J. Struckles 4/3/20 8.35 MBrown J. Struckles 4/17/20 11:40 as

QA/QC Check	Inst#	Probe #	Last Cal Date		PR Verificati		PO Verificat	ST: ion Value	Acceptable Range	Comments/ Notes	QA
Temperature	NIST	n/a	n/a	Std Val	NIST Hele	NIST 24.2°C	<u>NIST</u> 95,9°€	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
1	2	1	n/a		24.2		258				
2	2	2	n/a			24.2				post lab 24.1°	
Salinity			3 months	Std Val	Tap water	Salin Std 113120ate 35. Oppt	Tap water	Salin/Std //3/2date 35. Opt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
1	2	1	1/13/20		0.13	34.8	0.14	34.7			
2	2	2	1/13/20		0.13	34.8					
Dissolved Oxygen			1 year	Std Val	10	0%	100%		± 5 %		
/	2	1	13/18/19		98	.6	98	.5			
2	Z	2	10/18/19		102	27		_			
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.	2	3	1/13/20		7.03	10.00	7.03	10:02			
4	2	4	1/13/20		7.02	10.00	_	~			
Turbidity			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	1	n/a	12/9/19		0.06	6.76	0.04	6.74		Hd#16:79	
2	7	n/a	12/9/19		0.06	6.45	_	_		Hold 26.43	

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	Kamaole	Samplers	Harry Heal
Session	43	(Last Name, 1st Initial)	Scott & mass
Date	1/14/20		Will words can

Meters and	Probes ID		
HQ40d: 1		2100Q:	1
pH: 3	DO: 1		Salinity: 1

	Ct			Salinity	Dissolved	l Oxygen	-11		Turbidity		Peop	le (within 10	00 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		(NTU)		water	beach	camp
Kalepolepo North NKN200114	N	7:57	24.8	33.8	6.67	97.5	8.16	8.62	8.67	8.32	0	0	0
Waipuilani Park KWP200114	N	8:16	24.2	32.2	6.70	95,8	8.(3	27.8	26.9	27,6	0	0	0
Kihei South KKS200114	N	8'.36	24.0	32.5	6.64	94.7	8,13	4.96	7.93	7.79	0	5	1
Kalama Park KKP200114	N	8:59	24.5	33.5	6.29	91.1	8.13	4.03	3.99	4.50	٥	10	0
Cove Park KCP200114	N	9:08	250	34.1	6.20	91.2	8.15	1.87	1.70	2.06	0	3	1
Mai Poina Oe Iau NMP200114	N	9:29	24.2	33.7	6.35	93,3	8,13	5:01	7.19	8,50	2	2	0

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

Use the back of the form if needed.

KMP 70.5.dy 4th leading 3.15

The Reading 2.93

The Reading 8.34

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TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	61099	Med	High
Standard	0.06	6.76	59.9	610
Pre-sampling	0.82	6.69	60.2	610
Post-sampling	0.06	6.76	100.1	611

CHAII OF CUL	STODY INFORMATION		
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	6	NINS	IM Brain
Bacteria	70	1/206	in Burn

Sites with streams/outflows: Kalepolepo North, Kalama Park, Cove Park

Team	Kamaole	Samplers	Hecht th	CYRM	
Session	43	(Last Name, 1st Initial)	Graves S	/	
Date	1/14/20		Curr		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
NKN200114-N-1	Kalepolepo North	•		7:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP200114-N-1	Waipuilani Park	0		8.16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS200114-N-1	Kihei South			8.36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP200114-N-1	Kalama Park	8	0	8:59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP200114-N-1	Cove Park			9:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP200114-N-1	Mai Poina Oe Iau	9		9:29	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

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

Signature (Team Lead):	Printed Name:	
MITTELL	Mitch	Brown
MOUNT C	Marione	-,, -

Team	Makena	Samplers	Name, Leonge Burno	Maile Sharpe	Meters and Probes ID			
Session	43	(Last Name, 1st Initial)	George Bur	nette	HQ40d: 1		2100Q:	1
Date	1/15/20			21	pH: 3	DO: 1		Salinity: 1

	Streams	Time		Salinity (ppt) 30-35 normal	Dissolved	Oxygen	pН	Turbidity	Peop	le (within 1	00 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable		(mg/L)	(%) 85-105 normal	8-8.3 normal	(NTU)	water	beach	camp
Makena Landing MML200115	_	7:58a	n 25.3	34.5	6.57	97.3	8.14	0.92 1.08 0.96	4	4	-
S Maluaka Beach MMB200115	_	8:20	25.2	34.7	6-61	97.8	8.18	1.57 1.92 1.74	0	0	-
Oneuli MON200115	_	8:43	25.3	34.7	6.41	95.1	8.14	3.32 3.17 3.29	2	0	-
Ahihi Kinau North MAN200115	_	9:05	25.1	34.4	6.46	95.2	8.05	0,99 1.00 1,09	5	1	-
Ahihi Kinau South MAS200115	_	9:24	25.3	34.7	6.49	96.2	8.16	2.26 2.18 2.15	4	9	

	Use the back of the form if needed.
	- MAS "Swirlbag" placed in extra
(4)	having a slow, dry lead on the way
	having a slow, dry lead on the war
	back to the car.

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	6.79	599	610
Pre-sampling	0.07	6.69	60,0	621
Post-sampling	0.05	6.67	60.2	627

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-,	-	-
Nutrients	5	NMS	M Bron
Bacteria	5	NIMC	in Brown

Signature (Team Lead):	Printed Name:
Mitchellen	Much Brown
,	

Team	Makena	Samplers	Fries S	Sharpe M.
Session	43	(Last Name, 1st Initial)	Burnette 9.	
Date	1/15/20		parrecto	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
MML200115-N-1	Makena Landing			7:58	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB200115-N-1	South Maluaka Beach			8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON200115-N-1	Oneuli			8243	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN200115-N-1	Ahihi-Kinau North			9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS200115-N-1	Ahihi-Kinau South	1		9:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
ediments .					500 ml		
					300 IIII		
					500 ml		
					500 ml		

500 ml

500 ml

Signature (Team Lead):	Printed Name:
Alite	1 - MILL Brown
mus	Color of the color

Team	North Kihei	Samplers	Rybale D	Meters and	Probes ID	
Session	43	(Last Name, 1st Initial)	PIL. V	HQ40d: 1		2100Q: 1
Date	1/16/20		puly of	pH: 3	DO: 1	Salinity: 1

	Ctucoma		T	Salinity	Dissolved	d Oxygen					Peop	le (within 1	00 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		(NTU)		water	beach	camp
Maalaea Harbor NMH200116	NA	7:35	24.6	34.1	6,21	90.8	8.14	1.14	1.04	0.93	0	6	0
Maalaea Condos NMC200116	NA	7:59	24:7	33.5	5.95	86.8	8.06	7.74	8.07	8.16	0	1	0
Haycraft Park NHP200116	NA	8.27	25.1	34,3	6.38	94.0	8.17	4.40	5.83	4.84	B	1	6
Kealia Pond NKP200116	N	8:53	25.0	3417	6.70	98.9	8.20	0.93	0.91	0.91	6	3	6
Sugar Beach NSB200116	NA	9:12	24.7	34,3	6.65	97.5	8:19.18	2.03	1.92	2.08	1	4	6
Kihei Canoe Club NKC200116	NA	9:30	25.6	34.2	6.58	98.2	8.16	1.31	1.53	1.55	6	6	-1

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

NSB ph 8.18

Sites with streams/outflows: Kealia Pond

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.79	59.9	610
Pre-sampling	0.07	6,91	60.2	6216
Post-sampling	0.06	6.95	60.1	612

	# of samples	Relinquished to	Contact
Sediment		-	-
Nutrients	10.	NWS	M Brown
Bacteria	6	11712	M Brons

Signature (Team Lead): Printed Name: Brown

Team	North Kihei	Samplers	Repare D.
Session	43	(Last Name, 1st Initial)	61. 10
Date	1/16/20		Killy K

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients		,					
NMH200116-N-1	Maalaea Harbor			7:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC200116-N-1	Maalaea Condos			7.59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP200116-N-1	Haycraft Park	No.	08.7	78:39	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP200116-N-1	Kealia Pond			8.53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB200116-N-1	Sugar Beach			9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC200116-N-1	Kihei Canoe Club	Ta .		9:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead).	1	- Printed Name	1/1	
11111	1	Sall	Well !	R.
now (80	- Volt	ren 1	som

Team	Wailea	Samplers	Brown M	Meters and I	Probes ID	
Session	43	(Last Name, 1st Initial)		HQ40d: 1	2	2100Q: 1
Date	1/17/20			pH: 3	DO: 1	Salinity: 1

	Streams	Time		Salinity	Dissolved	Oxygen	рН		Tunkidita		Peopl	e (within 1	00 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		Turbidity (NTU)		water	beach	camp
Kilohana Dr WKD200117	N	8:12	24.8	34.6	6.67	97.8	8.15	1.02	0.86	0.92	6	3	0
Keawakapu Beach WKB200117	N	8133	24.7	34,7	6.64	97.3	8.16	0.93.	1.23	0.78	0	5	dogs
Ulua Beach WUL200117	W	9:03	25.0	34,5	6.39	94.0	8,15	0.63	1.68	1,07	Seeba	6	0
Palauea WPL200117	N	9:28	24.8	34.5	6.66	97.6	8.18	2.86	2.99	3.16	0	3	-0-
Poolenalena WPO200117	N	9:43	25,5	34.7	664	98.7	8.20	0.47	0.62	0.64	0	2	6

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

Use the back of the form if needed.

Pre Samplery 6.69 Ind Any Ofter wyang land vain for 2 has before

Samplers

WKB Took 4th reading 6.82

TURBIDITY VERI	FICATION		0 0	
	Blank (must be <0.10)	6179	Med	High
Standard	0.06	58.9	59.9	600
Pre-sampling	0.05	7.03	59.8 -	61961
Post-sampling	0.04	6.74	60.1	1012

CHAIN OF CUS	STODY INFORMATION	ON ·	- 4-1
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5-	WMS	M Bun
Bacteria	17EM	-	-

Signature (Team Lead):	Printed Name: /
MithIM	Mrs Much Braun

Team	Wailea	Samplers	Branch MA	
Session	43	(Last Name, 1st Initial)	prom M	
Date	1/17/20			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
trients		,					
WKD200117-N-1	Kilohana Dr			8:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB200117-N-1	Keawakapu Beach	6		8.33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL200117-N-1	Ulua Beach	d		9:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL200117-N-1	Palauea			9:28	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO200117-N-1	Poolenalena	D		9:43	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:
Milit	1 What I Barrie
Junu Com	C MORE DIOUS