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

Hui O Ka Wai Ola Pre Time: Session No: Verifiers (pre-sampling): Pre Date: Verifiers (post-sampling): Post Date:

()	,,		4							Pro	
QA/QC Check	Inst#	Probe #	Last Cal Date			RE: tion Value		OST: tion Value	Acceptable Range	Comments/ Notes	Q
l'emperature	NIST	n/a	n/a	Std Val	NIST 23.3°C	NIST 23.3 C	NIST °C	NIST 26.4°C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	1
	1	1	n/a		23.40				2	3: labley 2240 Sar 11 22.9°C en	d
	1	2	n/a			23.2		24.4		pot 22.9°c ==	
Salinity			3 months	Std Val	Tap water 0-13	Salin Std ABD date BBO ppt	Tap water	Salin Std 3/2 Oute 33 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	1	1/13/20		0.14	33-1	_	-			
	1	2	1/13/20		0.14	33.1	0.12	33.3			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	/	/	10/18/19		98.	70%	_	-			
	/	2	10/18/19		102	-5%	101	.6			
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	
	1	3	2/3/20		6.99	9.97	-	_			
	1	4	2/3/20		7.02	10.00	7.06	10.03			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 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	12/9/19		.04	6.68	_			std 6.79	
	2	n/a	12/9/19	13/10/1	.06	6.44	.03	646		1 6.43	

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	Kamaole	Samplers Cyf, R. Scott Graves	Meters and Probes	ID
Session	44	(Last Name, Cyk, M. 1st Initial)	HQ40d: 2	2100Q: 2
Date	2/4/20	Ay Harly	pH: 4	OC: 2 Salinity: 2

T N	Streams	Time		Salinity	Dissolved	l Oxygen	рН		Turbidity		Peopl	le (within 10	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	60	(NTU)		water	beach	camp
Kalepolepo North NKN2000204	N	7:59	24.9	32,8	6.40	93,2	8:18	1.18	1.82	123	0	2	0
Waipuilani Park KWP200204	N	8:18	24.6	32.7	6.32	91.3	8.20	9.21		9,05	0	2	0
Kihei South KKS200204	N	8:34	25.3	34.3	5,93	87,6	8.16	335	3.21	513	0	1	0
Kalama Park KKP200204	N	9:00	25.2	34.7	6.38	94.2	8.15	4.90	4,29	5.04	1	2	0
Cove Park KCP200204	N	9:07	25.4	33.7	6.10	87.9	8.15	2.25		2.53	0	5	0
Mai Poina Oe Iau NMP200204	Λ	9132	25.6	33.1	6.41	94.4	8.12	2.26	2,59	1 42	2	4	7)

RKS - Turb 4th (4.12)

Extra Reading

KKP-TIME RECORDED AT END OF

LAMPLING SESSION. I LOONED

THROUGH HQ40d READING LOG

AND SEE READINGS WERE TAKEN

BETWEEN 8:54Am & 8:56Am J.S.

(Sal, D.O.) (PH)

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

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	-06	6.43	57.4	594
Pre-sampling	108	6,47	57.7	595
Post-sampling	.07	6.45	57.7	594

	# of samples	Relinquished to	Contact
Sediment	-		
Nutrients	10	NMG	MEn
Bacteria	10	1/1110	100

Mittel Brown

Team	Kamaole	Samplers	Cur R	graves. S	
Session	44	(Last Name, 1st Initial)	CHT W	1 3	
Date	2/4/20		Hecht H-		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
NKN200204-N-1	Kalepolepo North	orth 2 7.59 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters					
KWP200204-N-1	Waipuilani Park	Ð		8.18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS200204-N-1	Kihei South	Q/		8.34	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP200204-N-1	Kalama Park			9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP200204-N-1	Cove Park	Ø		9:07	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	and the state of t
NMP200204-N-1	Mai Poina Oe Iau	D/		9:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

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

Signature (Team Lead):	Printed Name:
11111	M. 1 /1 @
Willed Dry	Willes Drown

Team	Makena	Samplers	Bob Sousa, Shend Frees,	Meters and	Probes ID		
Session	44	(Last Name, 1st Initial)	James Strichland	HQ40d: 2		2100Q:	2
Date	14500 2/5/20			pH: 4	DO: 2		Salinity: 2

	Streams	Time		Salinity	Dissolved	Oxygen	рН		Turbidity		Peop	le (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		(NTU)		water	beach	camp
Makena Landing MML200205		7:58	24.5	34.4	6.76	98:4	8.16	1.03	1.01	0.87	3	5	0
S Maluaka Beach MMB200205		8:ab	24.9	34.5	6.89	100-1	8.15	1.13	1.10	1.45	, ,	4	0
Oneuli MON200205		8:50	25.0	34.9	6.3a	93.2	8.09	0.81	0.86	0.88	0	4	0
Ahihi Kinau North MAN200205		9:12	25.1	34.3	7.40	108.7	8.08	1.07	1.09	1.50	2	2	0
Ahihi Kinau South MAS200205		9:35	25.1	134.4	6.70	98.8	8.11	1.19	1.18	1-16	17	23	0

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.07	6.43	57.4	594
Pre-sampling	0.06	6.40	56.9	594
Post-sampling	0.06	6.46	57.5	594

	# of samples	Relinquished to	Contact		
Sediment	-	-	-		
Nutrients	5	NMS	IM Brown		
Bacteria	5	aline 1	in Po		

Signature (Team Lead):	Printed Name:
7/1/	11/10
11976 1 191	My Lell Kan
May Don	Million Drown

Team	Makena	Samplers	Sousa B.	Strickland J.
Session	44	(Last Name, 1st Initial)	Iniac <	
Date	2/5/20		11125 2.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
MML200205-N-1	Makena Landing		0	7:58	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB200205-N-1	South Maluaka Beach	6	0	8:26	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON200205-N-1	Oneuli	4		8.50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN200205-N-1	Ahihi-Kinau North			9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS200205-N-1	Ahihi-Kinau South	Q		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

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

Signature Team Leady	B
Signature (Team Lead):	Printed Name:
11/1/1	MILER KNOWN
May m	William Drown

Team	North Kihei	Samplers	flo Bahanah	Meters and Probes ID		
Session	44	(Last Name, 1st Initial)	Doral Kylan	HQ40d: 2	2100Q: 2	2
Date	2/06/2020		R. Ciles	pH: 4 DO: 2		Salinity: 2

Location Name Sample ID	Streams	Strooms T:		Salinity	Salinity Dissolved 0						People (within 100 ft)		
	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	30-35 (mg/L) 85 105		pH 8-8.3 normal	()			water	beach	camp	
Maalaea Harbor NMH200206	N	7:30	24.6	34.4	6.48	95.1	8.14	.90	1.03	1.16	0	0	0
Maalaea Condos NMC200206	N	7:55	24.6	33.5	6.04	88. 2	8.01	2.31	1.97	1.99	0	0	0
Haycraft Park NHP200206	N	8:10	24.8	34.1	6.63	97.3	8.13	2.13	2.15	247	0	2	0
Kealia Pond NKP200206	N	8:27	25.1	35.1	6.81	101	8.19	<i>2</i> 78	.77	.80	1	3	1
Sugar Beach NSB200206	N	8:53	24.9	34.6	6.93	102.3		2.87		3.06	0	11	0
Kihei Canoe Club NKC200206	N	9:05	25.3	33.6	4.87	101.5	8.13	2-36	3-41	2.70	0	14	0

Rainy - light at NMH, NMC

Outrigger Cance enloading out NKC

* Rained provious might

Sites with streams/outflows: Kealia Pond

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	6.43	57.4	594
Pre-sampling	0,10	6.42	571	594
Post-sampling	0.06	6.46	57.5	595

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

Signature (Team Lead):	Printed Name:
dioral	Tiara Stark
0, 0	200 200 200 200 200 200 200 200 200 200

Team	North Kihei	Samplers	F. Bahr	
Session	44	(Last Name, 1st Initial)	D. Rybak	
Date	02/06/2020		p. Rilco	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
NMH200206-N-1	Maalaea Harbor			7:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC200206-N-1	Maalaea Condos			7:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP200206-N-1	Haycraft Park			8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP200206-N-1	Kealia Pond	4		8:27	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB200206-N-1	Sugar Beach	0		8:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC200206-N-1	Kihei Canoe Club	o/		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	
fice of	Tiara Stark	

Team	Wailea	Samplers	Allison, A	a Dillata	Meters and	Probes ID		
Session	44	(Last Name, 1st Initial)	WOH, A	2. Valler	HQ40d: 2		2100Q:	2
Date	2/07/2020				pH: 4	DO: 2		Salinity: 2

	Streams	ms lime		Salinity	Dissolved	Oxygen	pН		Turbidity		People (within 100 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		(NTU)		water	beach	camp
Kilohana Dr WKD200207	7:5	7:54	24.1	35.1	6.93	101.2	8.16	0.76	0.76	0.67	0	5	0
Keawakapu Beach WKB200207	N	8:12	24.3	35.1	7.07	103.4	8.15	1.15	1.73	1.46	0	13	0
Ulua Beach WUL200207	N	8133	23.8	34.7	7.09	1027	8.15	1.70	1.17	1.33	2	6	8
Palauea WPL200207	\sim	8.54	24.3	34.9	7.06	103.3	817	2.42	2.38	2.20	0	0	0
Poolenalena WPO200207	N	9:09	24.3	34.9	7.07	103.5	8.19	0297	0.76	0.79	9	3	0

21 and rain in 24 hrs.

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0-06	6.43	57.4	594
Pre-sampling	0.12	6.45	57.1	599
Post-sampling	0.03	12-46	57.6	594

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-0
Nutrients	5	MATIC	11 B 10
Bacteria	-	1-00	11 112

Signature (Team Lead): Printed Name:

Mula Droug

Team	Wailea	Samplers	Allison A.
Session	44	(Last Name, 1st Initial)	Wolf A
Date	2/07/2020		D'Allerda S.

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
WKD200207-N-1	Kilohana Dr			7:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB200207-N-1	Keawakapu Beach	6		8:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL200207-N-1	Ulua Beach			8:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL200207-N-1	Palauea			8:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO200207-N-1	Poolenalena	4		9:09	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature Tea	n Leagy:	Prin	ted Name:	11	
With		16	111	6h 2	Pro
Jane	1	sca	1111	MIS	10h