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

Session No:	Verifiers:	Pre date:	Pre time:	Post: Date:	Post time:
13	L-Otomo	4/30/18	0845	05/04/18	11:20



QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		OST: ion Value	Acceptable Range (Check range)	Comments/ Notes	QA?
Temperature			n/a	Std	22.3	21.9	18	.3	± 1°C of NIST	Within 1°C	
H	1	S-1	n/a		22.6		18	3.6			
	1	S-2	n/a			22.0					
Salinity				Std	0.13	33.0	0.13	33.0	± 3%, blank	33.95 - 36.05	
	1	1	s/19/18		0.14	33.5	0.12	33.6			
	İ	2	3/19/18		0.14	33-1					
Dissolved Oxygen				Std	10	0%	16	× 7.	Post-check ± 5 % of pre-check (0- 100%)	80 - 120 %	
	1	1	9/19/17		99-	476	99	8.0 %			
	1	2	9/19/17		99	-9 Zo					
рН	1			Std	7.00	10.01	7.50	10.01	± 3 % of calibration solution (6-8)	6.79 - 7.21	
	1	1	4/30/18		7.03	10.07	7.06	10-10			
	ı	2	4/30/18		7-03	10.07					

QA:

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

Team	Kamaole	Samplers	A . 1		Meters and Probes ID			
Session	13	(Last Name, 1st Initial)	Quinn, A		HQ40d: 1		2100Q:	1
Date	05/01/2018		Brown M		pH: 1	DO: 1		Salinity: 1

		Т	0.11.11	Dissolved	Oxygen	NH I		Wasse	Wind	People (within 100 ft)				Vandani		
Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)			Waves (0-3)	(0-6)	water	beach	camp	TSS	Nutrient duplicate		
Waipuilani Park KWP180501	1157	23.4	32.3	6.25	88	8.07	7.23	6.72	6.83	1	1	3	8	7		0
Kihei South KKS180501	8:20	24.7	33.7	5.94	86.4	8.13	8.83	11.10	9.50	1	1	0	4	1	_	0
Kalama Park KKP180501	8:20	24.8	34.8	6.80	996	8.19	3.32	3.22	3.29	1	2	22	4	7		0
Cove Park KCP180501	8:54	25.1	32.9	6.82	99.4	8.17	2.52	2.41	2.05	1	0	27	2	0		0
Kamaole I KKO180501	9:09	25.3	34.0	6.74	99.1	8.20	0.12	298	1.64	1	1	4	12	0		
Kamaole III KKT180501	9:28	25.0	34.1	6.76		1000	0.67	0.70	0.93	2	0	4	24	0	0	

Waves; 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind; 0; calm; 3: gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL	CONDITIONS	
Most recent tide time (falling or rising)	Low: 10:09am High: 4:24am (F)	
Moon day (from new)	16	
Cloud cover (0-8)	1	
Rain conditions (last 24 hrs)	0	
Wind direction (Trades/Kona)	k?	
Streams flowing? (Y/N)	-	

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

TURBIDITY VE	RIFICATION			
	Blank	Low	Med	High
Standard	0.04	6.06	56.6	588
Pre-sampling	0.06	6.19	56.7	589
Post-sampling	0.07	6.08	57.1	288

CHAIN OF CUSTODY INFORMATION						
	# of samples	Relinquished to	Contact			
Sediment	er .					
Nutrients	6	NMS	sofia			
Bacteria						

Printed Nan	ne:		
Sofia	de	la	SIN
		Printed Name: Sofia du	Printed Name: Sofia de la

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Kamaole	Samplers	Quinn A	Pauk 5
Session	13	(Last Name, 1st Initial)	Brown M	60 . 6
Date	05/01/2018		Brown 1	Ganr S

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
KWP180501-N-1	Waipuilani Park		0	7:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS180501-N-1	Kihei South	d	0	8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP180501-N-1	Kalama Park	ø		8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP180501-N-1	Cove Park	of .		8.54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKO180501-N-1	Kamaole I	■		9:09	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKT180501-N-1	Kamaole III	4		9:28	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		0	0		500 ml		
			0		500 ml		
		0			500 ml		
					500 ml		
					500 ml		
					500 ml		

gnature (Team Lead):	Printed Name:						
Aduaba	Sofia de la Sota						

Team	Makena	Samplers	Name, DUNING . J	Meters and Probes ID				
Session	12	(Last Name, DONNING.)	HQ40d: I	2100Q	2100Q: 1			
Date	05/02/2018			pH: 1 DO	: 1	Salinity: 1		

			0.11.11	Dissolved	Oxygen			T		Wassa	Wind	People (within 1		100 ft)		Nutrient
Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН		Turbidity (NTU)		(0-3)	(0-6)	water	beach	camp	TSS	duplicate
Makena Landing MML180502	8:15	25.1	34.8	6.64	97.8	8.18	0.97	1.03	1.20	0	0	0	4	0	0	0
S Maluaka Beach MMB180502	8:40	25,3	34.1	6.43	97.5	8.15	1.02	1.06	1.22	0	0	0	6	0	0	
Oneuli MON180502	8:50	25.3	34.1	6.67	98-1	8.10	1.16	1.56	1,50	ı	1	0	0	0	0	
Makena Beach MBS180502	9:15	25,4	35,5	6.73	100	8.19	0.69	0.92	0.71	2	1	0	2	0		
Ahihi Kinau North MAN180502	9:33	26.0	35,0	7.28	109,1	8.14	1.72	1.98	1.41	1	1	0	0	0		
Ahihi Kinau South MAS180502	9:40	25.8	34.4	6.50	96.7	8.08	1.63	1.55	1.78	0	1	0	8	0	0	

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind: 0: calm; 3: gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL	CONDITIONS
Most recent tide time (falling or rising)	Low: 10:34am High: 4:47am (F)
Moon day (from new)	17
Cloud cover (0-8)	% 8
Rain conditions (last 24 hrs)	405
Wind direction (Trades/Kona)	The light on shore
Streams flowing? (Y/N)	N/A

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

TURBIDITY VE	RIFICATION		(100-100-100-100-100-100-100-100-100-100	
A service industrial	Blank	Low	Med	High
Standard	0.07	6.06	56.6	588
Pre-sampling	0,04	4.04	57.0	987
Post-sampling	0.03	6.01	57.2	288

CHAIN OF CUSTODY INFORMATION									
	# of samples	Relinquished to	Contact						
Sediment	-								
Nutrients	G	NMS	Sofia						
Bacteria			165 T -						

Signature (Team Lead):	Printed Name:
Signature (Team Lead):	Sofia ou la sota

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Makena	Samplers	Sharpe, M	
Session	13	(Last Name, 1st Initial)	punning. J	
Date	05/02/2018		wildberger, T	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
MML180502-N-1	Makena Landing	4	0	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB180502-N-1	South Maluaka Beach	Ø		8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON180502-N-1	Oneuli	ø	0	8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MBS180502-N-1	Makena Beach Shoreline	6		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN180502-N-1	Ahihi-Kinau North	P	0	9:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS180502-N-1	Ahihi-Kinau South	B	0	9:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
			0		500 ml		
			0		500 ml		
					500 ml		
					500 ml		
			0		500 ml		

Signature (Team Lead):	Printed Name:
Jack 62	Sofra de la Sota

Team	North Kihei	Samplers	Thunholm, K. Bhar, F. Splean, S. R. ley, R. Splean, S.	Meters and Pro	obes ID	
Session	13			HQ40d: 1	21	2100Q: 1
Date	05/03/2018			рН: 1	DO: 1	Salinity: 1

				Dissolved	Oxygen					Warran	Wind	People	e (within	100 ft)		Nutrient
Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН		Furbidity (NTU)		Waves (0-3)	(0-6)	water	beach	camp	TSS	duplicate
Haycraft Park NHP180503	8:20	2-5.7	34.4	6.78	100.6	8.14	7.79	7.93	7.47	1	1	3	_3	0	0	0
Kealia Pond NKP180503	8:55	25.6	35.6	6.69	99.6	8.18	1.08	1.15	1.41	1	3	0	2	0	0	0
Sugar Beach NSB180503	9:20	25.8	35.0	6.67	99.5	8.16	4.42	4.48	14.28	1	1	3	3	0		
Kihei Canoe Club NKC180503	9:33	25.9	34.3	6.67	99.2	8,15	1.36	2.16	191	2	1	5	3	De 1		0
Mai Poina Oe Iau NMP180503	9:55	26.2	32.3	6,72	99.3	8.11	5,48	6.65	5187	2	2	0	1	0		0
Kalepolepo North NKN180503	10:15	26.6	29.9	6.74	44.3	8.18	3:35	3,44	3.43	1	3	0	1	0		0

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind: 0; calm; 3; gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL	CONDITIONS
Most recent tide time (falling or rising)	Low: 10:34 am High: 5:07 am (F)
Moon day (from new)	18
Cloud cover (0-8)	6
Rain conditions (last 24 hrs)	0,
Wind direction (Trades/Kona)	Trades
Streams flowing? (Y/N)	N

		MENTS (trends, eq rm if needed.			
MCHI	1#				by itself
twice	du.	ring yan	nyling -	- 600	n bulling

TURBIDITY VE	RIFICATION			
	Blank	Low	Med	High
Standard	0.03	6.06 M	56.6	588
Pre-sampling	0.06	6.18	.54.8	588
Post-sampling	0.06	5.99	57.1	587

CHAIN OF CUSTODY INFORMATION						
	# of samples	Relinquished to	Contact			
Sediment			-			
Nutrients	6	NMS	SAA			
Bacteria)					

Signature (Team Lead):	Printed Name:
Signature (Team Lead):	sofici ou to orn

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	North Kihei	Samplers	Thunholm, K	splum, S	
Session	13	(Last Name, 1st Initial)	Bahr, Flo		
Date	05/03/2018		Riter R		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NHP180503-N-1	Haycraft Park	4	0	8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP180503-N-1	Kealia Pond	R	0	8:65	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB180503-N-1	Sugar Beach	⊌	0	9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC180503-N-1	Kihei Canoe Club	d	0	9:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP180503-N-1	Mai Poina Oe lau	⊠″		9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKN180503-N-1	Kalepolepo North	8		10:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
		0			500 ml		
		0	0		500 ml		
					500 ml		
		0			500 ml		
		0			500 ml		

Signafure (Team Lead):	Printed				
Signature (Team Lead):	Sofia	de	6	6 th	

Team	Wailea	Samplers	Howard Wolf Jarvie	Meters and Probes ID				
Session	12	(Last Name, 1st Initial)		HQ40d: 1	21000	2100Q: 1		
Date	05/04/18			pH: 1 I	00: 1	Salinity: 1		

TREASON TO THE				Dissolved Oxygen			77 11114		Wanna	Wind	People (within 100 ft)				Nutrient	
Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН		(NTU)		Waves (0-3)	(0-6)	water	beach	camp	TSS	duplicate
Kilohana Dr WKD180504	8:10	25.4	35.2	6.59	97.9	8,18	0.63	0.51	0.56	0	0	0	8	0		0
Keawakapu Beach WKB180504	9:30	25.7	35.3	6.68	99.6	8.18	0.62	0.58	0.58	0 /	0	9	15	0	0	0
Ulua Beach WUL180504	8:36	25.4	34.8	647	96.7	8.15	1.59	2.09	1.20	1	0	5	15	0		0
Wailea Beach WWA180504	9:05	1	35.1	6-64	99.7	8.19	0.78	0.74	0.92	1	/	4	15	0	0	
Palauea WPL180504	9:30	26.0	35.0	6.48	100.1	8.20	0.77	1.16	0.93	2	D	13	12	0		
Poolenalena WPO180504	9:45	240	35.1	4.67	99.9	8.21	0.40	0.40	0.36	Z	1	1	20	2		

Waves: Off; no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind: 0: calm; 3: gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL	CONDITIONS			
Most recent tide time (falling or rising) Low: 11:26 am High: 5:21 am (F)				
Moon day (from new)	19			
Cloud cover (0-8)				
Rain conditions (last 24 hrs)	yes			
Wind direction (Trades/Kona)	01			
Streams flowing? (Y/N)	NO			

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

TURBIDITY VE	RIFICATION			
	Blank	Low	Med	High
Standard	0.06	6.06	56.6	288
Pre-sampling	0.09	6.14	57.2	588
Post-sampling	0.04	6.03	54.2	587

CHAIN OF CUSTODY INFORMATION						
	# of samples	Relinquished to	Contact			
Sediment		- 1				
Nutrients	G	NMS	sofa			
Bacteria						

Signature (Team Lead):	Printed Name	:	100	
Signature (Team Lead):	Solia	a.	6	an
Janare	35/10	-		

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Wailea	Samplers	Honord D	
Session	13	(Last Name, 1st Initial)	Wolf A	
Date	05/04/2018		Janic J	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients		,					
WKD180504-N-1	Kilohana Dr	8		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB180504-N-1	Keawakapu Beach	B		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL180504-N-1	Ulua Beach	4		8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WWA180504-N-1	Wailea Beach	4		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL180504-N-1	Palauea	d		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO180504-N-1	Poolenalena	6		9:46	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		E
		0	0		500 ml		
		0			500 ml		
					500 ml		
		0	0		500 ml		
		0			500 ml		

Signature (Team Lead):	Printed Name:						
Signature (Team Lead): Jawa 62	so fia a	ula	5th				