

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



Session No:	Verifiers:	Pre date:	Pre time:	Post Date:	Post time:
7	G. BURGESS / S. DE LA SOTA	2/5/18	10:25	01-07-18	11:00

QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value	POST: Verification Value	Acceptable Range (Check range)	Comments/ Notes	QA?
Temperature			n/a	Std	(Probe 1) 21.9 (Probe 2) 21.5	28.0	± 1°C of NIST	Within 1°C	
	1	S-1	n/a		22.1	28.2			
	1	S-2	n/a		21.7	—			
Salinity				Std	0.13	0.13	± 3%, blank	33.95 – 36.05	
	1	1	12/18/17		0.11	0.12			
	1	2	12/18/17		0.11	—			
Dissolved Oxygen				Std	100%	100%	Post-check ± 5 % of pre-check (0- 100%)	80 – 120 %	
	1	1	8/19/17		98.6 %	100.1			
	1	2	8/19/17		99.9 %	—			
pH				Std	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	1	1	2/5/18		7.00	7.05			
	1	2	2/5/18		7.00	—			

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

Team	Kamaole	Samplers (Last Name, 1st Initial) D Howard A Quinn S Graves S Pasick	Meters and Probes ID		
Session	7		HQ40d: 1		2100Q: 1
Date	02/06/18		pH: 1	DO: 1	Salinity: 1

Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	Dissolved Oxygen		pH	Turbidity (NTU)			Waves (0-3)	Wind (0-6)	People			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Waipuilani Park KWP180206	7:55	23.7	34.9	6.43	95.9	8.11	35.0	33.1	33.7	2	1	0	4	10	<input type="checkbox"/>	<input type="checkbox"/>
Kihei South KKS180206	8:15	23.7	34.1	6.73	97.0	8.11	17.7	17.3	17.4	2	0	0	5	0	<input type="checkbox"/>	<input type="checkbox"/>
Kalama Park KKP180206	8:33	24.2	35.2	6.46	97.5	8.11	15.4	16.5	15.7	3	0	18	8	0	<input type="checkbox"/>	<input type="checkbox"/>
Cove Park KCP180206	8:49	24.2	34.3	6.80	98.6	8.14	7.51	8.33	7.92	4	0	5	0	1	<input type="checkbox"/>	<input type="checkbox"/>
Kamaole I KKO180206	9:10	24.8	35.4	6.72	99.6	8.18	5.79 5.06	6.3	6.17	4	1	5	30	0	<input type="checkbox"/>	<input type="checkbox"/>
Kamaole III KKT180206	9:23	24.7	35.4	6.71	99.3	8.18	2.74	3.26	3.26	3	6+	10	47	0	<input type="checkbox"/>	<input type="checkbox"/>

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: 5:59am (F) High: 1:14pm
Moon day (from new)	21
Cloud cover (0-8)	0
Rain conditions (last 24 hrs)	Heavy 12 hours ago
Wind direction (Trades/Kona)	Kona
Streams flowing? (Y/N)	N

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
Very strong wind @ Kam III

TURBIDITY VERIFICATION				
	Blank	Low	Med	High
Standard	0.03	5.95	56.6	590
Pre-sampling	0.09	6.04	56.5	591
Post-sampling	0.04	5.95	56.7	590

CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment			
Nutrients	6	NMS	Sofia
Bacteria			

Signature (Team Lead):	Printed Name:
<i>Scott Grimes</i>	Scott Grimes
<i>Sofia de la Fita</i>	Sofia de la Fita

Team	Kamaole	Samplers (Last Name, 1st Initial)	Howard, J Quinn A Grans S Pacek S
Session	7		
Date	02/06/18		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KWP180206-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS180206-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP180206-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP180206-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:49	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKO180206-N-1	Kamaole I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKT180206-N-1	Kamaole III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):

Pacek

Printed Name:

J. F. Pacek

Team	Makena	Samplers (Last Name, 1st Initial)	Tina W, Aherly, Sofia D.	Meters and Probes ID		
Session	7			HQ40d: 1		2100Q: 1
Date	02/07/18			pH: 1	DO: 1	Salinity: 1

Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	Dissolved Oxygen		pH	Turbidity (NTU)			Waves (0-3)	Wind (0-6)	People			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Makena Landing MML180207	8:00	24.4	34.4	6.72	98.1	8.14	1.13	1.22	1.15	1	0	1	5	0	<input type="checkbox"/>	<input type="checkbox"/>
S Maluaka Beach MMB180207	8:25	24.4	35.0	6.82	100.1	8.16	2.39	2.05	1.77	2	0	2	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Oneuli MON180206	8:45	24.5	35.1	6.85	100.7	8.14	5.78	6.25	5.61	2	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Makena Beach MMB180206	9:05	24.9	35.4	6.74	99.8	8.20	0.39	0.45	0.42	1	1	0	4	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau North MAN180206	9:25	24.6	35.1	6.95	102.3	8.10	1.41	1.31	1.43	0	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau South MAS180206	9:35	25.0	35.1	6.68	99.1	8.13	1.41	1.44	1.57	0	0	10	6	0	<input type="checkbox"/>	<input type="checkbox"/>

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: 6:10am (F) High: 2:12pm
Moon day (from new)	22
Cloud cover (0-8)	1
Rain conditions (last 24 hrs)	torrential rain
Wind direction (Trades/Kona)	0, SSE
Streams flowing? (Y/N)	no (see notes)

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
MML - Signs of runoff (on land)

TURBIDITY VERIFICATION				
	Blank	Low	Med	High
Standard	0.04	5.95	56.6	590
Pre-sampling	0.05	6.02	56.8	589
Post-sampling	0.03	5.96	56.8	591

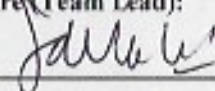
CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	-		
Nutrients	6	HMS	Sofia
Bacteria	-		

Signature (Team Lead):	Printed Name:
Juanita	Sofia de la Soza

Team	Makena	Samplers (Last Name, 1st Initial)	Wildberger T Fries S
Session	7		
Date	02/07/18		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
MML180207-N-1	Makena Landing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB180207-N-1	South Maluaka Beach	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON180207-N-1	Oneuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MBS180207-N-1	Makena Beach Shoreline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN180207-N-1	Ahihi-Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS180207-N-1	Ahihi-Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):



Printed Name:

Mic de la Cruz