

☐ Temperature of incubator (in)☐ Temperature of incubator (out)FIELD EQUIPMENT VERIFICATION (PRE/POST A WEEKLY SAMPLING):

Session No:	Verifiers:	Pre date:	Pre time:	Post Date:	Post time:
17	G. Andrade S. DELA SOTA	7/9/18	9:15	7/13/18	10:30.

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) 25.0 (Probe 2) 24.7	25.6	± 1°C of NIST	Within 1°C	
	1	1	n/a		25.2	25.7			
	1	2	n/a		24.8	—			
Salinity				Std	0.13	0.13	± 3%, blank	33.95 – 36.05	
	1	1	6/18/18		0.10* 33.3	0.09* 33.2		* WATER FROM * BRETTA FILTER	
	1	2	6/18/18		0.10* 33.3	—			
Dissolved Oxygen				Std	100%	100%	Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
	1	1	9/19/17		98.4%	98.4			
	1	2	9/19/17		100.0%	—			
pH				Std	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	1	1	7/4/18		7.03	10.06	7.06	10.10	
	1	2	7/4/18		7.03	10.05	—	—	

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

Team	Kamaole	Samplers (Last Name, 1st Initial) <i>Brown, M Howard D graves, S</i>	Meters and Probes ID		
Session	17		HQ40d: 1		2100Q: 1
Date	07/10/18		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 (within 100 ft)			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Kalepolepo North NKN180710	7:50	26.6	33.2	57.1	85.5	8.15	0.86	0.81	0.89	0	0	0	2	0	<input type="checkbox"/>	<input type="checkbox"/>
Waipuilani Park KWP180710	8:15	26.2	32.3	4.88	72.3	8.07	2.04	2.67	2.00	0	0	0	2	2	<input type="checkbox"/>	<input type="checkbox"/>
Kihel South KKS180710	8:35	27.2	32.9	5.29	79.9	8.13	3.15	3.53	3.56	1	0	0	4	0	<input type="checkbox"/>	<input type="checkbox"/>
Kalama Park KKP180710	9:00	26.9	34.0	6.58	99.7	8.17	5.71	5.34	5.58	1	0	0	8	0	<input type="checkbox"/>	<input type="checkbox"/>
Cove Park KCP180710	9:15	27.5	30.7	6.50	97.5	8.14	6.83	6.47	7.18	1	0	0	3	0	<input type="checkbox"/>	<input type="checkbox"/>
															<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: 7:20 am High: 3:25 pm (rising)
Moon day (from new)	27
Cloud cover (0-8)	1 haze / fog
Rain conditions (last 24 hrs)	0
Wind direction (Trades/Kona)	Trade
Streams flowing? (Y/N)	N

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed. <i>HQ40d is malfunctioning It does not startup correctly - goes blank - restarted several times. * 1 turtle</i>

TURBIDITY VERIFICATION				
	Blank	Low	Med	High
Standard	0.05	6.21	58.1	602
Pre-sampling	0.06	6.16	57.7	604
Post-sampling	0.05	6.22	57.9	603

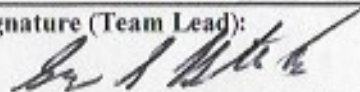
CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	1	1	1
Nutrients	5	NMS	Genie Burnett
Bacteria	1	1	1

Signature (Team Lead):	Printed Name:
<i>Genie Burnett</i>	Genie C. Burnett


Team	Kamaole	Samplers (Last Name, 1st Initial)	BROWN, M. HOWARD, O GRAVES, S
Session	17		
Date	07/10/18		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN180710-N-1	Kalepolepo North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP180710-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS180710-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP180710-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP180710-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
		<input type="checkbox"/>	<input type="checkbox"/>		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:

George C. BURNETT 

Team	Makena	Samplers (Last Name, 1st Initial)	J. Dunning, L. Lowder, S. Fries	Meters and Probes ID		
Session	17			HQ40d: 1		2100Q: 1
Date	07/11/18			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 (within 100 ft)			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Makena Landing MML180711	7:52	26.3	33.7	6.39	95.2	8.14	2.10	1.83	1.91	1	0	0	4	0	<input type="checkbox"/>	<input type="checkbox"/>
S Maluaka Beach MMB180711	8:24	26.7	34.6	6.36	96.1	8.17	0.57	0.56	0.60	2	0	2	3	0	<input type="checkbox"/>	<input type="checkbox"/>
Oneuli MON180711	8:50	26.9	34.2	6.46	97.8	8.10	2.08	2.14	2.28	2	1	0	4	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau North MAN180711	9:14	26.7	34.8	7.18	108.6	8.18	1.47	1.77	1.51	1	1	9	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau South MAS180711	9:35	26.7	32.2	6.56	99.0	8.13	1.86	1.72	1.59	2	2	6	14	0	<input type="checkbox"/>	<input type="checkbox"/>
															<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: 8:04 am High: 4:06 pm (rising)
Moon day (from new)	28
Cloud cover (0-8)	2
Rain conditions (last 24 hrs)	0
Wind direction (Trades/Kona)	0 from east
Streams flowing? (Y/N)	0

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

TURBIDITY VERIFICATION				
	Blank	Low	Med	High
Standard	0.05	6.21	58.1	602
Pre-sampling	0.24	6.23	57.7	603
Post-sampling	0.05	6.21	57.9	603

CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	—	—	—
Nutrients	5	NMS	George Burrows
Bacteria	—	—	—

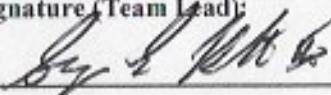
Signature (Team Lead):	Printed Name:
<i>[Signature]</i>	George B. Burrows

Team	Makena	Samplers (Last Name, 1st Initial)	Dunbar, J Fries, S Lowder, L
Session	17		
Date	07/11/18		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
MML180711-N-1	Makena Landing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB180711-N-1	South Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON180711-N-1	Oneuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN180711-N-1	Ahihi-Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:14	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS180711-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	
		<input type="checkbox"/>	<input type="checkbox"/>		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:


 GEORGE C. BARRETO

Team	North Kihei	Samplers (Last Name, 1st Initial)	SPAWN, S BAHR, F DOLASOTA, S Piley, R	Meters and Probes ID		
Session	17			HQ40d: 1	2100Q: 1	
Date	07/12/2018			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 (within 100 ft)			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Haycraft Park NHP180712	8:15	25.9	34.3	6.66	99.3	8.13	5.54	5.06	5.18	1	3	2	1	720	<input type="checkbox"/>	<input type="checkbox"/>
Kealia Pond NKP180712	8:40	25.8	35.4	6.52	97.4	8.20	1.23	1.25	1.31	1	4	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Sugar Beach NSB180712	8:55	26.4	35.1	6.52	98.4	8.19	4.97	4.04	4.70	2	3	1	4	0	<input type="checkbox"/>	<input type="checkbox"/>
Kihei Canoe Club NKC180712	9:15	26.8	34.3	6.47	98.0	8.11	5.23	5.94	4.85	1	2	1	3	0	<input type="checkbox"/>	<input type="checkbox"/>
Mai Poina Oe Iau NMP180712	9:30	26.8	32.1	7.47	99.6	8.13	2.03	2.30	2.64	1	4	1	2	0	<input type="checkbox"/>	<input type="checkbox"/>

6.66

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: 7:29 am (R) High: 2:55 pm
Moon day (from new)	29
Cloud cover (0-8)	1
Rain conditions last 24 hrs (0-4)	0
Wind direction (Trades/Kona)	TRADES
Streams flowing? (Y/N)	N

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed. HAYCRAFT PARK - HOMELESS CAMP 6 TENTS

TURBIDITY VERIFICATION				
	Blank	Low	Med	High
Standard	0.05	6.21	58.1	602
Pre-sampling	0.09	6.19	58.1	603
Post-sampling	0.06	6.12	58.1	602

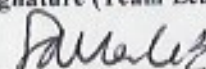
CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	Sofia
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:
Paula G.	Sofia de la Cruz

Team	North Kihei	Samplers (Last Name, 1st Initial)	Oplean, S Bahar, F Kihey R
Session	17		
Date	07/12/2018		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NHP180712-N-1	Haycraft Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP1806712N-1	Kealia Pond	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB180712-N-1	Sugar Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC180712-N-1	Kihei Canoe Club	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP180712-N-1	Mai Poina Oe Iau	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:30	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		

Signature (Team Lead):



Printed Name:

Jo Ann de la Rosa

Team	Wailea	Samplers (Last Name, 1st Initial)	Rindge, Holly D'Alerto, Seraph Wolf, Alice	Jarvis, Judy	Meters and Probes ID		
Session	17				HQ40d: 1		2100Q: 1
Date	07/13/18				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 (within 100 ft)			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Kilohana Dr WKD180713	7:55	26.5	34.8	6.55	99.0	8.18	1.32	1.34	1.20	0	0	1	8	0	<input type="checkbox"/>	<input type="checkbox"/>
Keawakapu Beach WKB180713	8:18	26.5	35.1	6.48	98.2	8.19	0.57	0.57	0.54	1	0	3	15	0	<input type="checkbox"/>	<input type="checkbox"/>
Ulua Beach WUL180713	8:46	26.7	34.5	6.47	97.9	8.16	1.28	1.19	1.45	1	0	19	50	0	<input type="checkbox"/>	<input type="checkbox"/>
Palauea WPL180713	9:10	26.9	34.7	6.53	99.4	8.16	1.10	1.19	1.18	1	0	2	4	0	<input type="checkbox"/>	<input type="checkbox"/>
Poolenalena WPO180713	9:13	27.1	35.1	6.01	99.9	8.07	0.87	0.44	0.41	1	0	2	6	3	<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

26.8 7.97 8.22

COASTAL AND ENVIRONMENTAL CONDITIONS	
Most recent tide time (falling or rising)	Low: 8:12 am (R) High: 3:36 pm
Moon day (from new)	2
Cloud cover (0-8)	2
Rain conditions last 24 hrs (0-4)	0
Wind direction (Trades/Kona)	K
Streams flowing? (Y/N)	N

TURBIDITY VERIFICATION				
	Blank	Low	Med	High
Standard	0.06	6.21	58.1	602
Pre-sampling	0.13	6.19	58.1	603
Post-sampling	0.06	6.21	58.0	601

CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	Sofia
Bacteria	-	-	-

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed. Nutrient sample bottle was dipped in ocean water by mistake. Thoroughly rinsed before sample filtered.
--

Signature (Team Lead):	Printed Name:
Jarvis	Sofia de la Rosa

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Wailea	Samplers (Last Name, 1st Initial)	Rindge, H D'Ancuta, S Wolf, A	Jarvis, J
Session	17			
Date	07/13/2018			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD180713-N-1	Kilohana Dr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	bottle wasn't acid washed - got dipped in ocean water. And then rinsed
WKB180713-N-1	Keawakapu Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL180713-N-1	Ulua Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL180713-N-1	Palauea	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO180713-N-1	Poolenalena	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:13	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		

Signature (Team Lead):

Sofia de la Sota

Printed Name:

Sofia de la Sota