

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

Session No:	Verifiers:	Pre date:	Pre time:	Post Date:	Post time:
6	Sofa & LaSota	01.23.18	7:00 AM	1-24-18	11:30



QA/QC Check	Inst #	Probe #	Last Cal Date	PRE: Verification Value	POST: Verification Value	Acceptable Range (Check range)	Comments/ Notes	QA?
Temperature			n/a	Sid		± 1°C of NIST	Within 1°C	
	2	S-1	n/a		19.4			
	2	S-2	n/a	19.9	19.7			
Salinity				Sid		± 3‰, blank	33.95 – 36.05	
	2	S-1	12/18/17	0.13	0.13	35		
	2	S-2	12/18/17	0.14	0.11	35.1		
Dissolved Oxygen				Sid		Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
	2	1	9/19/17	100%	100%			
	2	2	9/19/17	98.7	99.1			
pH				Sid		± 3 % of calibration solution (6-8)	6.79 – 7.21	
	2	1	11/8/18	7.02	7.00	10.01		
	2	2	11/8/18	7.02	7.05	10.08		

QA:

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



Team/ Session	Last Name, 1st Initial	Instrument #	pH #	DO #	Salinity #	Date:
Kamaole	Noetakeri Donna Howard	400: 2	2	2	2	01/23/18
6	Others: Scott Connor Howard	21000: 2				

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)			TSS ?	Nutrient Duplicate?
Waipulihi Park KWP180123	7:55	23.3	35.2	6.53	93.4	8.08	23.5	25.2	25.5	0	0	1	5	3		
Kihel South KKS180123	8:21	23.4	33.8	6.24	89.1	8.13	10.1	11.3	10.5	0	1	-	8	-		
Kalama Park KKP180123	8:35	23.9	35.2	6.76	97.7	8.15	11.1	11.3	10.9	1	0	2	6	-		
Cove Park KCP180123	9:06	24.4	34.0	6.70	97.1	8.13	7.83	8.08	7.91	2	0	10	2	-		
Kamaole I KKO180123	9:15	24.9	35.5	6.69	98.7	8.18	2.98	2.88	3.04	0	0	8	24	-		
Kamaole III KKT180123	9:30	24.6	35.7	6.67	98.3	8.17	1.29	1.13	1.25	1	0	20	55	55		

#### COASTAL AND ENVIRONMENTAL CONDITION NOTES

Waves: 0 ft = no waves; 1 ft = small waves; 2 ft = knee high; 3 ft = waist high  
Wind: 0 = calm, 1 = light air, 2 = light breeze, 3 = gentle breeze, 4 = moderate breeze  
People: Swimmers/Skateboarders/Surfers, On beach, Campers

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low: 2:43pm High: 7:59am (F)
Moon Day (from new)	8
Cloud Cover (0-8):	2
Rain Conditions (last 24 hours)	1
Wind Direction (Trades? Kona?):	Trade
Streams flowing? (Y/N)	N

QA Notes and Comments (Trends? Equip problems? Errors? Concerns? Use back of form if needed.)

WCP - Dog surfing @

Turbidity Verification				
	Blank	Low	Med	High
Standard	0.06	5.85	54.5	574
Pre	0.11	5.85	54.3	574
Post	0.03	5.85	54.4	574

	Total # of samples	Relinquished To:	Contact
Sediment	-	-	-
Nutrient	6	NMS	Sofia
Bacteria	-	-	-

Signature (Team Lead):

Print name here:

John A. Soto



# WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 <sup>st</sup> Initial	Date:
Kamaole 6	Danna <del>Wattana</del> Howard		01/23/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
KWP180123-N-1	Waipulani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:55	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKS180123-N-1	Kihel South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:21	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKP180123-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KCP180123-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:00	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKO180123-N-1	Kamaole I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:15	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKT1801023-N-1	Kamaole III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:30	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
Sediment							
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead): *Danna Howard* Print name here: *Danna Howard*



Team/ Session	Samplers		Instrument #	pH #	DO #	Salinity #	Date:
	Last Name, 1st Initial						
Makena	Noteaker: <i>Edg. BURRELL, G.</i>		404: 2	2	2	2	01/24/18
6	Others: <i>FAIES, S LOWBER, L. DELA SOTA, S. WOODBURN, T</i>		2100q: 2				

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)			TSS ?	Nutrient Duplicate ?
							In Water	Beach	Camp							
Makena Landing MMML180124	6:00	24.4	35.4	6.67	99.6	8.17	1.18	1.23	1.36	1	0	0	1	0	<input type="checkbox"/>	<input type="checkbox"/>
South Maluaka Beach MMB180124	08:31	24.5	35.7	6.84	100.7	8.19	1.03	1.14	1.18	2	0	3	2	0	<input type="checkbox"/>	<input type="checkbox"/>
Oneuli MON180124	8:58	24.4	35.6	6.79	99.5	8.13	3.54	3.34	3.63	1	0	0	5	0	<input type="checkbox"/>	<input type="checkbox"/>
Makena Beach Shoreline MBS180124	9:22	24.8	35.8	6.72	99.2	8.19	0.52	0.58	0.57	1	1	0	3	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahiki Kinau North MAN180124	9:50	24.9	35.5	7.21	106.6	8.14	0.68	0.61	0.78	0	0	12	3	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahiki Kinau South MAS180124	9:55	24.8	35.3	6.68	96.5	8.13	0.97	0.83	0.96	1	0	7	14	0	<input type="checkbox"/>	<input type="checkbox"/>

#### COASTAL AND ENVIRONMENTAL CONDITION NOTES

Waves: 0 ft = no waves; 1 ft = small waves; 2 ft = knee high; 3 ft = waist high  
 Wind: 0 = calm, 1 = light air, 2 = light breeze, 3 = gentle breeze, 4 = moderate breeze  
 People: Swimmers/Kayakers/Surfers, On beach, Campers

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low: 3:41 pm High: 8:33 am (F)
Moon Day (from new)	9
Cloud Cover (0-8):	2
Rain Conditions (last 24 hours)	no
Wind Direction (Trades? Kona?):	Trades
Streams flowing? (Y/N)	N

QA Notes and Comments (Trends? Equip problems? Errors? Concerns?  
 Use back of form if needed.)

#### Turbidity Verification

	Blank	Low	Med	High
Standard	0.03	5.85	54.5	574
Pre	0.05	5.80	54.1	574
Post	0.03	5.83	54.3	573

	Total # of samples	Relinquished To:	Contact
Sediment	-	-	-
Nutrient	6	NMS	Sofia
Bacteria	-	-	-

Signature (Team Lead): *Edg. Burrell*

Print name here: Sofia de la Sota



## WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 <sup>st</sup> Initial	Date:
MAK - 6	BONNETTE, G.		01/24/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
MMML180124-N-1	Makena Landing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0800	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MMMB180124-N-1	South Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0831	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MONI180124-N-1	Oneuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0858	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MBS180124-N-1	Makena Beach Shoreline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0922	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MANI180124-N-1	Ahili Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0950	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MASI180124-N-1	Ahili Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0955	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
Sediment							
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):

Julia Sam

Print name here:

Sophia de la Sota