

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

Session No:	Verifiers:	Pre date:	Pre time:	Post Date:	Post time:
SM-4	Sofia	12.18.17	9:00 am	12/20/17	11:15

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	20.6		24.3		± 1°C of NIST	Within 1°C	
	2	S-1	n/a		20.9		-				
	2	S-2	n/a		20.8		24.5				
Salinity				Std	35	35.0.14	35	0.14	± 3%, blank	33.95 – 36.05	
	2	1	9/19/17		34.9	0.14	-	-			
	2	2	11/6/17		35	0.14	34.8	0.14			
Dissolved Oxygen				Std	100%		100%		Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
	2	1	9/19/17		99.7		-				
	2	2	9/19/17		99.9		99.8				
pH				Std	7.00	10.01	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	2	1	12/18/17		7.02	10.06	-	-			
	2	2	12/18/17		7.01	10.06	7.18	10.20			

QA:

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

Team/ Session	Samplers Last Name, 1st Initial										Instrument #	pH #	DO #	Salinity #	Date:	
Kamaole	Notetaker: <i>Denna Howard</i>										40d: 2	2	2	2	12/19/17	
4	Others: <i>Scott Graves, Audrey Quinn, Steve Paschke</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		
Waipuilani Park KWP171219	8:13	24.5	34.4	6.47	94.4	8.08	20.1	20.7	19.8	2	4	-	5	2	<input type="checkbox"/>	<input type="checkbox"/>
Kihei South KKS171219	8:35	25.1	34.0	6.04	88.9	8.12	7.32 6.1	7.37	7.28	0	1	0	3	-	<input type="checkbox"/>	<input type="checkbox"/>
Kalama Park KKP171219	8:50	25.0	34.4	6.44	94.8	8.14	4.99	5.53	5.33	1	2	3	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Cove Park KCP171219	9:05	25.2	32.3	6.22	90.7	8.12	3.37	4.06	3.74	1	1	10	-	-	<input type="checkbox"/>	<input type="checkbox"/>
Kamaole I KKO171219	9:29	25.2	34.9	6.44	98.4	8.20	1.72	1.20	1.38	1	2	5	18	-	<input type="checkbox"/>	<input type="checkbox"/>
Kamaole III KKT171219	9:45	25.4	35.1	6.58	98.0	8.18	.69	.65	.92	1	2	18	25	-	<input type="checkbox"/>	<input type="checkbox"/>

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low: 11:23am High: 5:25am (Falling)
Moon Day (from new)	3
Cloud Cover (0-8):	8
Rain Conditions (last 24 hours)	-
Wind Direction (Trades? Kona?):	Kona
Streams flowing? (Y/N)	

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

Vog
Campfire @ KWP

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

Turbidity Verification

	Blank	Low	Med	High
Standard		5.85	54.5	574
Pre	.06	5.84	54.6	573
Post	0.05	5.83	54.5	573

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

Signature (Team Lead):

Sofia de la Sota

Print name here:

Sofia de la Sota

WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 st Initial	Date:
Kamaole 4	Donna Howard		12/19/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
KWP171219-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:13	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKS171219-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKP171219-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:50	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KCP171219-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:05	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKO171219-N-1	Kamaole I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:29	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKT171219-N-1	Kamaole III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:45	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):
Donna Howard
Print name here:
Sota de la Sota

Team/ Session	Samplers Last Name, 1st Initial		Instrument #	pH #	DO #	Salinity #	Date:
Makena	Notetaker: Alfred Wolf		40d: 2	2	2	2	12/20/17
4	Others: Lory Tina		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 MML171220	8:05	24.5	35.4	6.71	98.6	8.31	1.11	1.46	1.14	0	2	0	8	0	<input type="checkbox"/>	<input type="checkbox"/>
South Maluaka Beach MMB171220	8:30	24.4	35.3	6.75	99.0	8.30	0.84	0.92	1.05 1.23	2	4	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Oneuli MON171220	8:55	24.5	35.3	6.74	98.9	8.28	1.67	2.37 2.37	1.85	2	4	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Makena Beach Shoreline MBS171220	9:17	24.7	35.4	6.68	98.3	8.31	0.55	0.59	0.55	1	2	0	2	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau North MAN171220	8:36	24.4	35.2	6.37	93.4	8.17	0.72	0.76	0.87	0	1	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau South MAS171220	9:36	24.4	34.3	6.56	95.5	8.16 8.16	0.88	0.93	0.97	1	2	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low: 12pm High: 5:57am (Falling)
Moon Day (from new)	3
Cloud Cover (0-8):	8
Rain Conditions (last 24 hours)	Mist
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.)

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

Turbidity Verification

	Blank	Low	Med	High
Standard		5.85	54.5	578
Pre	0.05	5.96	54.3	573
Post	0.06	5.83	54.9	573

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

Signature (Team Lead):

Schlabach

Print name here:

Sofia de la Sota

WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 st Initial	Date:
MAK - 4	Alfred Wolf		12/20/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
MML171220-N-1	Makena Landing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:05	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MMB171220-N-1	South Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:30	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MON171220-N-1	Oneuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:55	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MBS171220-N-1	Makena Beach Shoreline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:17	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MAN171220-N-1	Ahihi Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:36	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MAS171220-N-1	Ahihi Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:56	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):
Johanna
Print name here:
Sofia de la Riva