

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

Session No:	Verifiers:	Pre date:	Pre time:	Post Date:	Post time:
1	Rohin	11/06/17	11:30	11/08/17	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	Std	22.3	22.1	28.1		± 1°C of NIST	Within 1°C	
	1	S-1	n/a		22.5		28.3				
	1	S-2	n/a		22.1 22.3					not used in the field	
Salinity				Std	35.0	34.8 0.13		0.13	± 3%, blank	33.95 – 36.05	
	1	1	9/19/17		34.8	0.13	35.2	0.13			
	1	2	11/6/17		35.0	0.14				not used in the field	
Dissolved Oxygen				Std	100%		100%		Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
	1	1	9/19/17		99.0%		98.9%				
	1	2	9/19/17		100.0%					not used in the field	
pH	8	8		Std	7.00	10.01	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	1	1	11/6/17		7.01	10.06	7.13	10.13			
	1	2	11/6/17		7.01	10.06		7.01		not used in the field	

Notes: Are pre- and post- within one week? Sal #2 had to be re-calibrated bc. value was 37.2.

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: Howard, D Delasata, S.		40d: 1	1	1	1	11/07/17
1	Others: Brown, M; Quinn, A; Graves, S; Paselk, S.		2100q: 1				

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 KWP171107	8:20	25.9 26.1	33.7	5.47	81.5	8.19	8.31	7.70	8.58	0	1	0	0	2	<input type="checkbox"/>	<input type="checkbox"/>
Kihei South KKS171107	9:05	26.8	34.7	5.97	90.5	8.22	5.14	5.12	5.25	0	1	2	8	—	<input type="checkbox"/>	<input type="checkbox"/>
Kalama Park KKP171107	9:27	27.0	34.8	6.26	95.2	8.22	8.88	8.32	7.99 8.21	2.5	1	1	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Cove Park KCP171107	9:55	26.9	34.3	6.24	94.5	8.24	1.31	0.98	1.08	0	1	20	1	—	<input type="checkbox"/>	<input type="checkbox"/>
Kamaole I KKO171107	10:23	27.7	35.0	6.4	98.7	8.27	0.97	0.91	1.11	0	0	30	30+	0	<input type="checkbox"/>	<input type="checkbox"/>
Kamaole III KKT171107	10:50 AM	28.0	35.6	6.36	98.9	8.26	1.10	1.43	1.22	0	1	40	50+	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: 12:49 pm High: 6:23 am (Falling)
Moon Day (from new)	19
Cloud Cover (0-8):	3
Rain Conditions (last 24 hours)	0
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.)

KKP Turtles/Hony

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	1	6	56.2	576
Pre	0.08	6.00	54.4	575
Post	0.05	5.94	56.4	576

	Total # of samples	Relinquished To:	Contact
Sediment	0		
Nutrient	6	NMS	Sofia
Bacteria	0		

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:
Kam 1	Howard, D.		11/07/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
KWP171107-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:20	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KKS171107-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:05	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KKP171107-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:27	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KCP171107-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:55	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KKO171107-N-1	Kamaole I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:23	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KKT171107-N-1	Kamaole III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:50	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment							
KWP171107-S-1	Waipuilani Park	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KKS171107-S-1	Kihei South	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KKP171107-S-1	Kalama Park	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KCP171107-S-1	Cove Park	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KKO171107-S-1	Kamaole I	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KKT171107-S-1	Kamaole III	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Julia Lm

Sofia de la Sota

Team/ Session	Samplers Last Name, 1st Initial						Instrument #	pH #	DO #	Salinity #	Date:
Makana	Notetaker: THOMAS WILDBERGER, T de la Jota, Fries, Wolf, Vander						40d: 1	1	1	1	11/08/17
1	Others: Sofia, Sheryl, Alfred, Lory						2100g: 1				

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		
Makana Landing MML171108	8:30	26.7	35.2	6.45	97.8	8.26	1.41	1.48	1.44	1	0	2	0	0	<input type="checkbox"/>	<input type="checkbox"/>
South Maluaka Beach MMB171108	8:52	26.9	35.4	6.43	98.1	8.28	0.60	0.61	0.64	1	0	7	5	0	<input type="checkbox"/>	<input type="checkbox"/>
Oneuli MON171108	9:27	26.8	35.5	6.07	92.5	8.19	1.13	1.11	1.22	1	0	0	1	0	<input type="checkbox"/>	<input type="checkbox"/>
Makana Beach Shoreline MBS171108	9:57	26.7	35.4	6.55	99.5	8.26	0.71	0.71	0.75	2-3	0	2	6	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau North MAN171108															<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau South MAS171108															<input type="checkbox"/>	<input type="checkbox"/>

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low: 2:24 pm High: 7:22 am (F)
Moon Day (from new)	1
Cloud Cover (0-8):	6
Rain Conditions (last 24 hours)	NONE
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.)

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		6.00	56.2	576
Pre	0.06	5.97	56.4	576
Post	0.07	5.89	56.3	576

	Total # of samples	Relinquished To:	Contact
Sediment			
Nutrient	4	NMS	Sofia
Bacteria			

Signature (Team Lead):

Sofia de la Jota

Print name here:

Sofia de la Jota

WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 st Initial	Date:
MAK - 1	WILSON, T		11/08/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
MML171108-N-1	Makena Landing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:30	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MMB171108-N-1	South Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:52	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MON171108-N-1	Oneuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:27	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MBS171108-N-1	Makena Beach Shoreline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:57	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MAS171108-N-1	Ahihi Kinau South	<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment							
MML171108-N-1	Makena Landing	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MMB171108-N-1	South Maluaka Beach	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MON171108-N-1	Oneuli	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MBS171108-N-1	Makena Beach Shoreline	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MAS171108-N-1	Ahihi Kinau South	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):
Sally Li
Print name here:
Sally Li