

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

Session No:	Verifiers:	Pre date:	Pre time:	Post Date:	Post time:
SM - 2	John de la Pira	11/20/17	10:00 Am	11/22/17	11:45 Am

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	24.0	22.8		27.3	± 1°C of NIST	Within 1°C	
	1	S-1	n/a		24.3						
	2	S-2	n/a			23.0		27.4		used in the field	
Salinity				Std	35.0	^{std} 0.13	^{35.0} 33.3*	0.13	± 3%, blank	33.95 – 36.05	
	8-1	S-1	9/19/17		34.7	0.14					
	8-2	S-2	11/06/17		35.7	0.14	^{35.5} 34.2	0.14		used in the field	
Dissolved Oxygen				Std	100%			100%	Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
	1	1	9/19/17		98.9 %						
	2	2	9/19/17		98.9 %			99.4 %		used in the field	
pH				Std	7.00	10.01	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	1	1	11/06/17		7.00	10.06 10.01					
	2	2	11/06/17		7.00	10.06 10.01	7.07	10.10		used in the field	

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

NI reading

value in locked screen @ the end.

* POST ver. std salinity sn. is the secondary standard. (33.3 ppt)
re-verified in 35.0 std; S-2: 35.5.

Team/ Session	Samplers Last Name, 1st Initial		Instrument #	pH #	DO #	Salinity #	Date:
Kamaole	Notetaker: <i>Brown, Mitch</i>		40d: <i>2</i>				11/21/17
2	Others: <i>Paselle, S. Groves, S. De LaSota, S.</i>		2100q: <i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	

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 KWP171121	8:05	23.6	33.6	5.97	85.4	8.13	11.1	11.3	11.3	0	2	0	2	0	<input type="checkbox"/>	<input type="checkbox"/>
Kihei South KKS171121	8:34	24.4	34.9	6.27	91.6	8.24	3.11	3.65	3.61	0	2	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Kalama Park KKP171121	9:00	23.7	34.8	6.50	94.8	8.20	3.50	3.33	3.60	0	2	2	1	0	<input type="checkbox"/>	<input type="checkbox"/>
Cove Park KCP171121	9:20	25.3	34.2	6.41	94.7	8.17	1.12	0.85	0.92	0	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Kamaole I KKO171121	9:34	25.7	35.6	6.58	98.4	8.22	0.69	0.79	0.69	0	0	11	20	0	<input type="checkbox"/>	<input type="checkbox"/>
Kamaole III KKT171121	10:04	25.7	36.1	6.50	97.7	8.21	0.45	0.55	0.49	0	1	12	20	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: 12:12pm High: 6:11am (falling)
Moon Day (from new)	5
Cloud Cover (0-8):	0
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.)

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	0.05	5.75	54.1	559
Pre	0.06	5.81	54.3	561
Post	0.05	5.75	54.3	561

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

Signature (Team Lead): *Jallen Brown* Print name here: *Sofia de la Rosa*

WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 st Initial	Date:
Kam 2	Brown, M.		11/21/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
KWP171121-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:05	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KKS171121-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:34	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KKP171121-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:00	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KCP171121-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:20	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KKO171121-N-1	Kamaole I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:54	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
KKT171121-N-1	Kamaole III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:04	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							
KWP171121-S-1	Waipuilani Park	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KKS171121-S-1	Kihei South	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KKP171121-S-1	Kalama Park	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KCP171121-S-1	Cove Park	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KKO171121-S-1	Kamaole I	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
KKT171121-S-1	Kamaole III	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):
Sofia de la Sota
Print name here:
Sofia de la Sota

Team/ Session	Samplers Last Name, 1st Initial						Instrument #	pH #	DO #	Salinity #	Date:
Makena	Notetaker: Lory Lowder						40d: 2	2	2	2	11/22/17
2	Others: Alfred, Tina Wolf, Wildberger						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 MML171122	8:05	25.5	36.1	6.47	96.7	8.24	0.56	0.58	0.54 0.70	1	1	2	2	2	<input type="checkbox"/>	<input type="checkbox"/>
South Maluaka Beach MMB171122	8:40	25.4	36.2	6.58	99.3	8.24	0.52	0.53	0.49	2	2	2	2	2	<input type="checkbox"/>	<input type="checkbox"/>
Oneuli MON171122	9:10	25.6	36.1	6.78 2.42	101.5	8.25	1.95 2.42	2.01	2.04	2	2 ³	2	4	2	<input type="checkbox"/>	<input type="checkbox"/>
Makena Beach Shoreline MBS171122	9:30	26.1	35.9	6.59	99.3	8.25	0.44	0.43	0.44	2	2	2	2	2	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau North MAN171122	10:15	25.7	36.1 36.1	7.17	107.5	8.28	0.60	0.69 0.42	0.70	0	2	6	5	2	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau South MAS171122	10:40	25.5	35.6	6.85	102.3	8.27	0.84	1.09	0.84	2	4	9	20+	2	<input type="checkbox"/>	<input type="checkbox"/>

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low: 1:06pm High: 6:49am (falling)
Moon Day (from new)	6
Cloud Cover (0-8):	3
Rain Conditions (last 24 hours)	0
Wind Direction (Trades? Kona?):	1
Streams flowing? (Y/N)	N

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

lots of kayakers but not close at
Makena Landing

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	0.05	5.75	54.1	559
Pre	0.05	5.76	54.0	560
Post	0.06	5.78	54.1	560

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

Signature (Team Lead):

Jalula

Print name here:

Sofia de la Sota

WA. QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 st Initial	Date:
MAK - 2	Lowder, L		11/22/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
MML171122-N-1	Makena Landing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:05	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MMB171122-N-1	South Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:40	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MON171122-N-1	Oneuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:10	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MBS171122-N-1	Makena Beach Shoreline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:30	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MAN171122-N-1	Ahihi Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:15	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
MAS171122-N-1	Ahihi Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:40	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment							
MML171122-N-1	Makena Landing	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MMB171122-N-1	South Maluaka Beach	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MON171122-N-1	Oneuli	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MBS171122-N-1	Makena Beach Shoreline	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MAN171122-N-1	Ahihi Kinau North	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
MAS171122-N-1	Ahihi Kinau South	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):
Johna 612
Print name here:
Sofia de la Sota