

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

Session No:	Verifiers:	Pre date:	Pre time:	Post: Date:	Post time:
32	G. Burnette L. Callnan D. Reed L. Otomo	12/18/17	10:00 a	12/22/17	12:08 PM

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 3) 23.3	(Probe 2) 23.3	(Probe 3) <del>22 + 21.4</del>	± 1°C of NIST	Within 1°C
*	1	5-3	n/a		23.5	21.4			
*	1	2	n/a		23.6				
Salinity				Std	0.04	Bottle 11/13/17 33.2 ppt	Bottle 11/13/17 33.2	± 3%, blank	33.95 – 36.05
*	1	3	10/2/17		0.04	33.3	0.03	33.5	
*	1	2	10/2/17		0.04	33.3			
Dissolved Oxygen				Std	100%	100%	Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
*	1	2	3/28/17		98.9%	99.4%			
*	1	1	3/28/17		101.4%				
pH				Std	7.00	10.01	7.00	10.01	± 3 % of calibration solution (6-8)
*	1	4	12/18/17		7.00	10.01	7.04	10.06	temp: 23.2 °C
*	1	3	12/18/17		7.00	10.01			

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

\* Used in field

Team/ Session	Samplers Last Name, 1st Initial								Instrument #	pH #	DO #	Salinity #	Date:				
R2RS	Notetaker: Reed, D.								40d:	1	4	2	3	12/19/17			
32	Others: Freiberg, T.								2100q:	1							
Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)					
							1.28	1.43	1.08			In Water	Beach	Camp	TSS ?	Nutrient Duplicate ?	
Napili Bay RNS RNS171219	8:21	24.8	35.2	6.72	98.9	8.16	1.15	1.28	1.43	1.08	2	∅	2	3	∅	□	□
Pohaku RPO RPO171219	8:55	24.8	34.0	6.74	98.7	8.16	24.5	23.5	22.2	1	∅	∅	2	∅	□	□	
Kaanapali Sh RKS RKS171219	9:21	24.9	34.9	6.68	98.4	8.18	26.2	25.5	24.9	1	∅	∅	∅	∅	□	□	
Airport Beach RAB RAB171219	9:46	25.1	34.8	6.46	95.4	8.18	5.57	5.08	4.46	1	∅	3	1	∅	□	□	
Canoe Beach RCB RCB171219	10:10	25.2	34.2	6.64	97.9	8.20	2.03	1.96	2.13	∅	∅	1	6	∅	□	□	
Wahikuli RWA RWA171219	10:30	24.9	33.1	6.74	98.5	8.21	1.35	1.15	1.14	∅	1	∅	∅	∅	□	□	

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 11:05 a.m.; Falling High 4:51 a.m.
Moon Day (from new)	3
Cloud Cover (0-8):	8
Rain Conditions (last 24 hours)	light
Wind Direction (Trades? Kona?):	Kona
Streams flowing? (Y/N)	

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

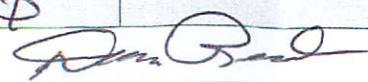
Brown plume RPO - 2 fishermen  
RKS brown close to shore  
RCB - lots of fishermen  
Upon return to lab replaced batteries in HQ40D meter

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	0.06	5.32	55.3	622
Pre	0.09	5.30	55.5	623
Post	0.08	5.33	55.6	623

	Total # of samples	Relinquished To::	Contact
Sediment	∅	LHS	
Nutrient	6	LHS	
Bacteria	∅		

Signature (Team Lead): 

Print name here: Dana Reed

**WATER QUALITY SAMPLING:**

Team:	Notetaker:	Last Name, 1 <sup>st</sup> Initial	Date:
R2RS - 32			12/19/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
RNS171219-N-1	Napili Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:21	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RPO171219-N-1	Pokahu	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:55	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RKS171219-N-1	Kaanapali Sh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:21	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RAB171219-N-1	Airport Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:46	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RCB171219-N-1	Canoe Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:10	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RWA171219-N-1	Wahikuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:30	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment - TSS							
RNS171219-S-1	Napili Bay	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RPO171219-S-1	Pokahu	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RKS171219-S-1	Kaanapali Sh	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RAB171219-S-1	Airport Beach	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RCB171219-S-1	Canoe Beach	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RWA171219-S-1	Wahikuli	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Team/ Session	Samplers Last Name, 1st Initial								Instrument #	pH #	DO #	Salinity #	Date:
Polanui	Notetaker: Reed, D.								40d: 1	4	2	3	12/20/17
32	Others: Harris, K. Bayly R.								2100q: 1	+DE			
Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)	Waves	Wind	People (within 100 ft)			TSS ?
505 Front St PFF PFF171220	8:20	24.0	35.4	6.68	97.2	8.15	5.42 5.43 5.33 6.52	Ø	Ø	Ø Ø Ø			□ □
Lindsey Hale PLH PLH171220	8:41	24.1	34.9	6.59	96.0	8.14	7.31 6.83 6.69	Ø	1	Ø 3 Ø	☒		□ □
Lahaina Town PLT PLT171220	9:05	23.9	34.5	6.61	95.5	8.13	10.3 10.0 9.88	Ø	Ø	7 1 Ø	☒		□ □
Puamana PPU PPU171220	9:35	24.4	34.9	6.85	100.2	8.17	5.69 5.19 5.75	2	1	Ø Ø Ø			□ □
Launiupoko OLP OLP171220	9:55	24.6	35.0	6.77	99.5	8.13	4.96 4.59 4.94	1	Ø	2 1 Ø Ø			□ □
Olowalu Pier OSF OSF171220	10:15	24.6	35.0	6.35	93.2	8.08	2.48 2.89 2.56 3.29	Ø	1	Ø Ø Ø			□ □

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 11:42 am High 5:23 am falling
Moon Day (from new)	3
Cloud Cover (0-8):	8 everywhere
Rain Conditions (last 24 hours)	Rainy
Wind Direction (Trades? Kona?):	Kona/Trades ?
Streams flowing? (Y/N)	

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

PFF - normal amount of flow

People surveying at OLP in baby pond.

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	0.09	5.32	55.3	622
Pre	0.06	5.25	55.1	624
Post	0.06	5.35	55.3	623

	Total # of samples	Relinquished To::	Contact
Sediment	2	LHS	
Nutrient	6	LHS	
Bacteria	Ø		

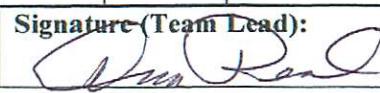
Signature (Team Lead):

Print name here:

Dana Reed

Team:	Notetaker:	Last Name, 1 <sup>st</sup> Initial	Date:
Polanui 32	Reed, D		12/20/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
PFF171220-N-1	505 Front St	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
PLH171220-N-1	Lindsey Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
PLT171220-N-1	Lahaina Twn	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
PPU171220-N-1	Puamana	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OLP171220-N-1	Launiupoko	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OSF171220-N-1	Olowalu Pier	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment - TSS							
PFF171220-S-1	505 Front St	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
PLH171220-S-1	Lindsey Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
PLT171220-S-1	Lahaina Twn	<input checked="" type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
PPU171220-S-1	Puamana	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OLP171220-S-1	Launiupoko	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OSF171220-S-1	Olowalu Pier	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):  


Print name here:  
Dana Reed

Team/ Session	Samplers Last Name, 1st Initial								Instrument #	pH #	DO #	Salinity #	Date:	
Olowalu	Notetaker: Reed, D.	40d:	1	4	2	3	12/21/17							
32	Others: Otomo L.	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		
Martin Hale OPM OPM171221	8:21	23.5	34.7	6.46	92.8	8.03	9.07 <del>11.8</del> 10.4	10.4	Ø	1	Ø Ø Ø	Ø	Ø	Ø
Camp Olowalu OCO OCO171221	8:45	24.1	34.8	5.91	85.9	8.02	2.35 2.23	2.65	Ø	1	Ø Ø Ø	Ø	Ø	Ø
Mile Marker 14 OMM OMM171221	9:04	24.2	34.6	5.87	85.4	8.00	4.36 4.27	4.38	Ø Ø	5 3	Ø	Ø	Ø	Ø
Ukumehame OUB OUB171221	9:24	24.2	34.6	6.63	96.5	8.11	3.66 3.56	3.52	1	2	Ø Ø 2	Ø	Ø	Ø
Papalaua Beach OPB OPB171221	9:43	24.7	34.6	6.63	97.4	8.09	50.0 50.4	49.1	1	1	Ø Ø Ø	Ø	Ø	Ø
Papalaua Pali OPP OPP171221	9:58	25.0	35.1	6.24	92.3	8.11	13.3 13.1	13.2	2	Ø Ø 2	1	Ø	Ø	Ø

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 12:23 pm High 5:56 am falling
Moon Day (from new)	4
Cloud Cover (0-8):	6
Rain Conditions (last 24 hours)	A. Rain (heavy)
Wind Direction (Trades? Kona?):	mix
Streams flowing? (Y/N)	Y

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

Heavy rains over Maui w/ flash floods right before.  
Ukumehame flowing brown  
Pali stream lots of brown  
OPB porta potty leaking?

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	0.06	5.32	55.3	622
Pre	0.05	5.27	55.1	624
Post	0.06	5.28	55.4	623

	Total # of samples	Relinquished To::	Contact
Sediment	Ø	LHS	
Nutrient	6	LHS	
Bacteria	Ø		

Signature (Team Lead):

Print name here:

Dana Reed

Team:	Notetaker:	Last Name, 1 <sup>st</sup> Initial	Date:
Olowalu 32			12/21/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
OPM171221-N-1	Martin Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:21	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OCO171221-N-1	Camp Olowalu	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:45	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OMM171221-N-1	Mile Marker 14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:04	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
oub171221-N-1	Ukumehame	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:24	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OPB171221-N-1	Papalaau Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:43	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OPP171221-N-1	Papalaau Pali	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:58	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment - TSS							
OPM171221-S-1	Martin Hale	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OCO171221-S-1	Camp Olowalu	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OMM171221-S-1	Mile Marker 14	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
oub171221-S-1	Ukumehame	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OPB171221-S-1	Papalaau Beach	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OPP171221-S-1	Papalaau Pali	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):

Print name here:

Dana Reed

Team/ Session	Samplers Last Name, 1st Initial							Instrument #		pH #	DO #	Salinity #	Date:	
	R2RN	Notetaker: Reed, D.							40d:	1	4	2	3	12/22/17
32	Others: Bunker, B. Hutchings, L.							2100q:	1					
Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)		
							21.2	21.3	20.0			In Water	Beach	Camp
Honolua Bay RHL RHL171222	7:59	22.6	28.5	7.04	96.1	8.17	21.2	21.3	20.0	1	1	∅	2	∅
Fleming North RFN RFN171222	8:42	23.4	33.9	6.98	99.5	8.17	7.26	7.37	7.55	2 <sup>3</sup> DR	4	∅	∅	∅
Onealoa Bay RON RON171222	9:17	24.0	35.1	6.93	100.7	8.19	3.55 3.73 4.14	4.11	4.26	2	3	∅	∅	∅
Kapalua Bay RFS RFS171222	9:50	24.5	34.7	6.95	101.8	8.18	2.70 2.73 2.74	3.49	3.53	2	3	13	50	∅
Ka'opala Bay RKO RKO171222	10:18	23.4	33.9	6.93	99.1	8.14	3.12 <sup>4</sup>	35.9	36.2	2	1	∅	2	∅
Kahana Vill RKV RKV171222	10:43	24.3	33.7	7.18	103.9	8.19	16.5	17.0	16.6	3	1	∅	∅	∅

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 1:10 p.m; Falling High 6:30 a.m.
Moon Day (from new)	6
Cloud Cover (0-8):	8
Rain Conditions (last 24 hours)	Stormy week
Wind Direction (Trades? Kona?):	Trades
Streams flowing? (Y/N)	

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

BACK

RHL - moderate stream flow / MUD lots of organic matter from stream - organic smell  
RFN - both streams flowing lightly - BIG waves strong N.E wind  
RON - dirtiest I have ever seen bay - lots of detritus in water

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	0.06	5.32	55.3	622
Pre	0.08	5.28	55.2	624
Post	0.05	5.30	55.4	622

	Total # of samples	Relinquished To::	Contact
Sediment	2	LHS	D. Reed
Nutrient	7	LHS	D. Reed
Bacteria	∅		

Signature (Team Lead): D. Reed

Print name here: D. Reed

RFS - noticed detritus floating on water near shore

RFS - 1st turbidity reading 3.12

RKO - very muddy; stream does not appear to be flowing

RKV - <sup>now</sup> but definitely has been flowing last 2 days

RKV - lost bucket, Bruce got cut, rocks to blame. Moved spot to south most entry. Discharged ~10 ml of  $0.2 \mu\text{m}$  filter into N-2 bottle by mistake. Rest went into N-1 bottle. Discharged  $55 \text{ ml}$   $0.7 \mu\text{m}$  filter into N-2 bottle. Wrote a report on Bruce's injury.

Team/ Session	Samplers Last Name, 1st Initial							Instrument #		pH #	DO #	Salinity #	Date:			
	R2RN	Notetaker: Reed, D.							40d:	1	4	2	3	12/22/17		
32	Others: Bunker, B. Hutchings, L.							2100q:	1							
Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)				
												In Water	Beach	Camp		
Honolua Bay RHL RHL171222	7:59	22.6	28.5	7.04	96.1	8.17	21.2	21.3	20.0	1	1	∅	2	∅	☒	□
Fleming North RFN RFN171222	8:42	23.4	33.9	6.98	99.5	8.17	7.26	7.37	7.55	3 <sup>DR</sup>	4	∅	∅	∅	☒	□
Onealoa Bay RON RON171222	9:17	24.0	35.1	6.93	100.7	8.19	4.11	4.26	2	3	∅	∅	∅	□	□	
Kapalua Bay RFS RFS171222	9:50	24.5	34.7	6.95	101.8	8.18	2.70	3.49	3.53	2	3	13	50	∅	□	□
Ka'opala Bay RKO RKO171222	10:18	23.4	33.9	6.93	99.1	8.14	3.12	35.9	36.2	2	1	∅	2	∅	□	□
Kahana Vill RKV RKV171222	10:43	24.3	33.7	7.18	103.9	8.19	16.5	17.0	16.6	3	1	∅	∅	∅	□	☒

## COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 1:10 p.m.; Falling High 6:30 a.m.
Moon Day (from new)	6
Cloud Cover (0-8):	8
Rain Conditions (last 24 hours)	Stormy week
Wind Direction (Trades? Kona?):	Trades
Streams flowing? (Y/N)	

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

BACK

RHL - moderate stream flow/MUD lots of organic matter from stream - organic smell  
RFN - both streams flowing lightly - BIG waves strong N E wind  
RON - didn't see any - lots of litter

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	0.06	5.32	55.3	622
Pre	0.08	5.28	55.2	624
Post	0.05	5.30	55.4	622

	Total # of samples	Relinquished To::	Contact
Sediment	2	LHS	D. Reed
Nutrient	7	LHS	D. Reed
Bacteria	∅		

## WATER QUALITY SAMPLING:

Team:	Notetaker: Last Name, 1 <sup>st</sup> Initial	Date:
R2RN - 32	Reed, D.	12/22/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
RHL171222-N-1	Honolua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:59	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RFN171222-N-1	Fleming North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:42	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RON171222-N-1	Oneloa Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:17	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RFS171222-N-1	Kapalua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:50	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RKO171222-N-1	Ka'opala Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:18	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RKV171222-N-1	Kahana Village	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:43	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RKV171222-N-2	Kahana Village	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:43	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment - TSS							
RHL171222-S-1	Honolua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:59	500		<input type="checkbox"/>
RFN171222-S-1	Fleming North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:42	500		<input type="checkbox"/>
RON171222-S-1	Oneloa Bay	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RFS171222-S-1	Kapalua Bay	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RKO171222-S-1	Ka'opala Bay	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RKV171222-S-1	Kahana Village	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>