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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
72	J. Strickland, G. Silver	6/15/20	9:00	G. Silver B. Maxwell	6/19/20	10:54

QA/QC Check	Inst#	Probe #	Last Cal Date		The second secon	RE: tion Value		OST: tion Value	Acceptable Range	Comments/ Notes	QA
Temperature	NIST	n/a	n/a	Std Val	<u>NIST</u> 29.6 ℃	NIST 29.4°C	NIST 27.9°C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
)	3	n/a		29.1		27.4				
	1	2	n/a			20.9					
Salinity			3 months	Std Val	<u>Tap water</u> 1/27/20→ 65	Salin Std 6/11/31 date 34.2 ppt	<u>Tap water</u> 1/27/2° GS	Salin Std 6/19/20 date 34.2 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	6/15/20		0.53	34.8	0.54	35.0			
	١	2	6/15/20		0.47	34.9					
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	1	1	6/15/20		102.8		102.6				
	1	2	6/15/20		101.7		·	-			
рН		5	3 weeks	Std Val	pH 7.00	pH 10.00	pH 7.00	pH 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle	
	1	5	6/15/20		7.0265	9.99	7.01	9.98			
	1	4	6/15/20		6.99	9.99	-				
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 5.45 NTU	<u>BLANK</u> <0.1	LOW 1-10 5.45 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	i	n/a	6/15/20		0.05	5.45	80.0	5.45			
	+	n/a									

QA:

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

Team	Olowalu	Samplers	Strickland, J.	Meters and Probes ID	
Session	72	(Last Name, 1st Initial)	Silver, G.	HQ40d: 1	2100Q: 1
Date	06/ 18 /2020			pH: 5 DO:	1 Salinity: 3

	G.			Salinity	Dissolved	l Oxygen					Peop	le (within 1	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water beach		camp
Martin Hale OPM20061 8 16	\sim	7:06	36.135	36.4	5.64	84.2	8.0	1.61	1.84	1-64	0	0	0
Camp Olowalu OCO20061 8 i6	\sim	7:29	25.8	36.5	6.25	94.1	8.07	3.97	3.54	3.69	0	0	0
Ukumehame OUB2006 18 6	~	7:48	26,3	36.7	6.59	100,3	0.09	0.8	11.6	12.6	0	0	0
Papalaua Beach OPB2006 18 16	N	8:04	26.4	36.7	6.80	103.6	8,12	4.17	4.01.05	4.66	0	0	0
Papulua Pali OPP200618-16	N	8:26	76.0	36.4	6.76	107.3	8.13	5.55	4.91	5.50	10	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.

Oco-very fishy odor

DO NOT TAKE NUTRIENT SAMPLES THIS EVENT (Will Only Be Taken Quarterly)

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	5.45	56.2	591
Pre-sampling	0.06	5.51	56.2	591
Post-sampling	0.08	5.49	56.2	590

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	0	N/A	N/A				
Nutrients	0	N/A	N/A				
Bacteria	. 0	N/A	N/A				

Signature (Team Lead): Printed Name:

Grace Silver

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
OPM200618-N-1	Martin Hale				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO2006 18 -N-1	Camp Olowalu				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OUB200618-N-1	Ukumehame				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPB2006 18 -N-1	Papalaua Beach				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP200618-N-1	Papulua Pali				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments		0			500 ml		
Sediments					500 ml		
Sediments							

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Grace Silver

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Polanui	Samplers	J. Strickland	Meters and Probes II	
Session	72	(Last Name, 1st Initial)	G. Silver	HQ40d: 1	2100Q: 1
Date	6/17/2020			pH: 5 DO	Salinity: 3

				Salinity	Dissolved	l Oxygen					Peop	le (within 1	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water beach		camp
505 Front St PFF200617	N	8:12	26.5	36.2	6.35	96.7	8.04	5,85	5,49	5,28	0	2	0
Lindsey Hale PLH200617	\sim	8: 35	26.4	36.2	6.53	99.3	8.05	2.18	2,28	2.37	1	٥	G
Lahaina Town PLT200617	N	8:55	26.8	36.0	6.12	93.6	8.03	6.96	6.38G 5.71	6.84)	G	0
Olowalu Pier OSF200617	N	9:27	26.9	36.5	6.82	104.6	8.13	2.71	2.85	3.17	0	0	0
		(

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.

OSF-No nutrients

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.08	5.45	56.2	591
Pre-sampling	0.09	5.47	56.4	591
Post-sampling	0.08	5.39	56.4	589

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment							
Nutrients	3	NMS	G. Silver				
Bacteria			/-				

Signature (Team Lead): Printed Name:

Grace Silver

Team	Polanui	Samplers
		I act Nama

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF200617-N-1	505 Front St	Ø		8:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH200617-N-1	Lindsey Hale	Q		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT200617-N-1	Lahaina Town	P		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OSF200617-N-1	Olowalu Pier				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		
					iture (Team		er

Team	Samplers	J. Strickland	Meters and Probes ID				
Session	72	(Last Name, 1st Initial)	1 11195	HQ40d: 1	2100Q: <u>1</u>		
Date	06/16/2020			pH: 5 D	O: 1 Salinity: 3		

	G.			Salinity	Dissolved	l Oxygen					Peop	le (within 1	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)		water	beach	camp	
Napili Bay RNS2006 16 18	N	8:25	26.0	34.7	7.03	105.2	8.12	5.70	5.54	5.37	G	0	0
Pohaku RPO2006 16 [8	\sim	8:52	25.3	34.0	6.84	100.8		3.10	3.10	2.58	0	Ó	0
Kaanapali Sh RKS20061 6 18	\sim	9:16	26.4	36.3	6.65	101.0		4.12	4.15	4.69	0	0	0
Canoe Beach RCB20061618	N	9:50	26.6	35.4	6.86	104.1	8.16	12.2	12.7	13.1	0	0	0
Wahikuli RWA2006 16 ای	2	80:01	26.5	35.5	6,85	103.8	8.16	1.64	1.62	1.65	0	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.

RWA - Fisherman Set up

Other: Weather calm, sunny, not very windy.

TURBIDITY VER	RIFICATION			William Pil	
	Blank (must be <0.10)	Low	Med	High	
Standard	0.08	5.45	56, 2	691	
Pre-sampling	0.080.08	5.44	56.3	591	
Post-sampling	0.06	5.39	56,2	590	

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact "					
Sediment	1 -	-	-					
Nutrients	5	NMS	G. Silver					
Bacteria	-	-	-					

Signature (Team Lead):	Printed Name:	
Caraco Sur_	Grace Silver	

Team	R2RS	Samplers
		G N

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS2006 16 -N-1	Napili Bay	Ø		8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO2006 16 -N-1	Pohaku	A		8:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS2006 16 -N-1	Kaanapali Sh	E		9:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB2006 16 -N-1	Canoe Beach	Q		9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA2006 16 -N-1	Wahikuli	Q		10:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	
andton	Grace Silver	

Team	R2RN	Samplers G. 2000	Meters and P	Meters and Probes ID				
Session	72	(Last Name, 1st Initial)	J. Strickland	HQ40d: 1	21	2100Q: <u>1</u>		
Date	6/19/2020			pH: 5	DO: 1	Salinity: 3		

	Streams	m:		Salinity	Dissolve	d Oxygen					Peop	People (within 100 ft)		
Location Name Sample ID	Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)			water	beach	camp	
Honolua Bay RHL200619	N	8:20	25.3	35,3	5.88	87.4	8.08	2.15	1.69	1.86	0	0	6	
Oneloa Bay RON200619	\sim	8:45	25.6	36.5	6.89	103.6	21.8	0.42	0.45	0.43	0	1	0	
Kapalua Bay RFS200619	\sim	9:12	25.8	34.7	6.72	100.4	8.05	1,48	172	1.72	0	0	0	
Ka'opala Bay RKO200619	V	9:45	25.9	35.3	6.51	97.5	8.09	6.62	6.22	6.14	0	0	0	
Kahana Village RKV200619	N	10:05	XJ6.0	35.5	6.21	97.4	9.09	4,80	5.09	4.78	0	0	0	
							0,		•					

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.

RHL-Decay smell (vegetation) Ron-one dog on beach

TURBIDITY VER	RIFICATION				
	Blank (must be <0.10)	Low	Med	High	
Standard	0.06	5.45	56.2	591	
Pre-sampling	0.07	5.39	56.3	590	
Post-sampling	0.08	5.45	56.2	590	

CHAIN OF CUSTODY INFORMATION					
	# of samples	Relinquished to	Contact		
Sediment	-	-	-		
Nutrients	5	NMS	G. Silver		
Bacteria	-	-	-		

Signature (Team Lead):	Printed Name:	
Granco Stre	Grace Silver	

Team	R2RS	Samplers
E & HELLEN		(T N

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL200619-N-1	Honolua Bay	Ø		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON200619-N-1	Oneloa Bay	Ø		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS200619-N-1	Kapalua Bay	Ø		9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO200619-N-1	Ka'opala Bay	Ø		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV200619-N-1	Kahana Village	Ø		10:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):

Printed Name:

Grace Silver