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



Post Time: Verifiers (pre-sampling): 669 Verifiers (post-sampling): Post Date: Pre Time: Pre Date: Session No: AURNETTE, 6 5/22/18 11:00 an 9.20.18 10:00 am Sm 44 19

QA/QC Check	Inst #	Probe	Last Cal Date		PR Verificati			ST: tion Value	Acceptable Range	Comments/ Notes	QA
Temperature			n/a	Std	NIST 21.5	NIST 21.3	NIST 29.2	<u>NIST</u>	± 1°C of NIST	Within 1°C	
	١	1	n/a		21.7	-	29,1				
	1	2	n/a		-	21.5					
Salinity			3 months	Std	Tap water 0.13 0.04 ppt	Salin Std 4-9-19 date 33.0 ppt	Tap water 0.63 9:04 ppt	Salin Std 4/4/18 date 33.6 ppt	± 3%, blank	33.95 – 36.05	
	1	1	0-19.18		0.14	33.4	6.15	33.2			
	I.	2	6.18.18		0.14	33.4	668	ryyeas			
Dissolved Oxygen			1 year	Std	10	0%	10	00%	Post-check ± 5 % of pre-check	80 – 120 %	
	1	11/2	9/19/17		97	-0 -1-	97	7.3 %			
	1	2	9/19/17		98	G ·/·					
рН			3 weeks	Std	pH 7.00	pH 10.00	pH 7.00	pH 10.00	± 3 % of cal solution (6-8)	6.79 – 7.21	
	1	1	7-30.18		7.02	10.07	7.05	10.09	PRETEMP /9.1°		
	1	2	7.30.18		7.02	10.07			PRETEMP		
Turbidity			3 months	Std	BLANK <0.1	10W1-10 6.02/6.24	BLANK <0.1	LOW 1-10 6-21	Blank < 0.1 ± 3 % of secondary standard	Low ± 0.18 NTU Med ± 1.8 NTU High ± 18 NTU	
	1)	N/A	6.18.18	6.21	0.04	6.21	0.03	6.23			
	2	N/A	6.18.18	6.03	0.03	6.03		-			

QA:

\* Are pre- and post within one week? 669 \* Delay times are ok?

665

\* Other equipment issues?

Team	Kamaole	Samplers	Howard D	Meters and Probe	s ID	
Session	19	(Last Name, 1st Initial)	Brown M	HQ40d: 1	210	00Q: 1
Date	08/21/2018	130 1110001	Paselk, 8	pH: 1	DO: 1	Salinity: 1

			0 11 11	Dissolved	Oxygen	T.		Turbidity		Waves	Wind	People	e (within	100 ft)		Nutrient
Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН		(NTU)		(0-3)	(0-6)	water	beach	camp	TSS	duplicate
Kalepolepo North NKN180821	7:95	26.9	31-6	5.92	88.5	8.13	1,73	1.93	1.56	1	4	1	2	0		
Waipuilani Park KWP180821	8_28	26.4	31. 8	5.58	83.0	8.11	5.09	4.67	5.08	0	1	0	0	0		
Kihei South KKS180821	8:40	77.5	33.4	4.99	76.0	8,10	4.75	5.50	5.32	1	1	2	3	0		
Kalama Park KKP180821	9:00	27.3	34.0	6.51	99.2	8.16	7.01	7.50	473	- {-	2	1	3	0		
Cove Park KCP180821	9:13	28,2	32.9	6-16	94.9	8.16	1.93	1.64	1.94	0	1	0	O	0		

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind: 0: calm; 3: gentle breeze; 6: strong breeze

Most recent tide time (falling or rising)	Low: 6:26 am (rising) High: 2:43 pm	
Moon day (from new)	11	
Cloud cover (0-8)		
Rain conditions last 24 hrs (0-4)	, 0,	
Wind direction (Trades/Kona)	Tranes	
Streams flowing? (Y/N)		

	COMMENTS (trends, f the form if needed.	equipment problei	ns, errors, concerns).
took 2 Hear	es of blank i we	15 over 2.0	wiped with oil
NE I MA	/ / h		
clarana	suffrent bot	He was sp	illed & resump
was	taken ul 3	ame syru	nge a bottle

TURBIDITY VE	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.21	58.1	602
Pre-sampling	0.25	4.24	58,2	6.04
Post-sampling	0.08	6.21	58.1	604

CHAIN OF CUSTODY INFORMATION									
	# of samples	Relinquished to	Contact						
Sediment	-		-						
Nutrients	5	NMS	Consi horald						
Bacteria	-	-	-						

Signature (Peam Lead): /	1 )	Printed	Name		/
	1	10.416	1	RIANTER	1116
187/8/1/10	· C	GERRY	0-	DUIGENO	/

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Kamaole	Samplers	Howard D.
Session	19	(Last Name, 1st Initial)	DIOWIT IVE
Date	08/21/2018		Paselle S.

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
NKN180821-N-1	Kalepolepo North			7:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP180821-N-1	Waipuilani Park	3		8:28	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS180821-N-1	Kihei South	2		8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP180821-N-1	Kalama Park	8		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP180821-N-1	Cove Park			9:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		ų.
					500 ml		
					500 ml		40.000.0
					500 ml		-
					500 ml		

Signature Team Lead):	Printed Name:  GANGE G. BUNGETTE	(I)
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Team	Makena	Samplers	M. Sharpe, J. Dunning, S. Fries	Meters and Pr	obes ID		
Session	19	(Last Name, 1st Initial)	T. Wildberger	HQ40d: 1		2100Q:	1
Date	08/22/2018			pH: 1	DO: 1		Salinity: 1

Location Name Sample ID	Time	ime Temp	Callade.	Dissolved Oxygen			Turbidity		Waves	Wind	People (within 100 ft)			Nutrient	
			Salinity (ppt)	(mg/L)	(%)	рĦ		(NTU)		(0-3)	(0-6)	water	beach	camp	duplicate
Makena Landing MML180822	7:52	im 27.3	26.2	6.44	94%	8.17	1.16	1.36	1.08	l	0	3	9	0	
S Maluaka Beach MMB180822	8:25	27.7	34.7	6.23	96.2	8.18	1.22	1.62	1.15	1	0	4	2	0	
Oneuli MON180822	8:47	(c	losed		i.F.		95	0	1			6	0	05	
Ahihi-Kinau North MAN180822	1:04	27.5	34.8	7.17	110.1	8.75	0.95	2.37	1.31	1	0	6	0	0	0
Ahihi-Kinau South MAS180822	9:00	(0	losed				2010								

Waves: Off: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind: 0: calm; 3: gentle breeze; 6: strong breeze

Most recent tide time (falling or rising)	Low: 7:12 am (rising) High: 3:12 pm
Moon day (from new)	12
Cloud cover (0-8)	H
Rain conditions last 24 hrs (0-4)	
Wind direction (Trades/Kona)	NNW 4mph
Streams flowing? (Y/N)	

NOTES AND COMMENTS (trends, equipment problems, errors, concer	ns).
Use the back of the form if needed.	
Hurricane have warning issued 5:3 MMB-construction behad beach as demolstron MON-beach closed, 8:47am	ram 1 wella

Hurricane	have warning iss struction behad be	ned 5:37am
	demolaton	
MON-be	ich closed, 8:47am	
MAN-no	th - foul smell -	source unknown

TURBIDITY VE	RIFICATION			
	Blank (must be < 0.10)	Low	Med	High
Standard O. C	868.04	626	58.7	603
Pre-sampling	0.04	6.16	58.3	603
Post-sampling	0.03	6.23	58.2	604

CHAIN OF CU	ISTODY INFORMAT	TION	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	3	pms	GEORE BUNKETT
Bacteria	-	-	-

Printed Name:
WHOE 6 BURDETTE THE
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Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Makena	Samplers	SHARPE, ON OVENDOG, J.
Session	19	(Last Name, 1st Initial)	FACES, S. WELDBERGER, T.
Date	08/22/2018		PACES, S. WILDHERGER, T.

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Vutrients							
MML180822-N-1	Makena Landing	t		7:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB180822-N-1	South Maluaka Beach			8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON180822-N-1	Oneuli	- 0			125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN180822-N-1	Ahihi-Kinau North	10/		9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS180822-N-1	Ahihi-Kinau South				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Tear	n Lead):	Printed Name:	
Ley		660066 6. BURNETE	U