☐ Temperature of incubator (in)

☐ Temperature of incubator (out)

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

11:30	2118719	8.15		a and a state	10
L'OSI IIII	Post: Date:	Pre time:	Pre date:	Verifiers:	bestion No:



		pН			Dissolved Oxygen			Salinity			Temperature	QA/QC Check
-	-		-	-	+	-	-		-	-		Inst#
l ₂	-		2	-	-	7.			2	-		Probe #
81/19/18	81/10/180		1/8/10	11/18/190	11) 11/1/1	12/18/17	12/18/17		n/a	n/a	n/a	Last Cal Date
		Std			PIS			Std			Std C	
7.03	7.00	7.00	98.37	98.5%	100%	0.16	0.16	0.13		12.3	(trace)	PRE: Verification Value
10.06	10.06	10.01	9	6		35.4	24.9	iper ya.	121		22.0	B: on Value
50.t	1	20.t	-86		[60]	0.18	1	0.13	26.2		26.1	POST: Verification Value
10.08	1	10.01	1.4.86	1	1,	34.7	1	35.0	2	1	1	on Value
		± 3 % of calibration solution (6-8)			Post-check ± 5 % of pre-check (0- 100%)			± 3%, blank			± 1°C of NIST	(Check range)
		6.79-7.21			80 - 120 %			33.95 - 36.05			Within 1°C	Comments/ Notes
						-						QA?

QA: * Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team Kamaole Samplers Andrey Puin no House House House House Brown House Brown Mitch Brown Brown Probes ID					
naole Samplers Andrey Puin n (Last Name, Dennie (Acusased Process) 1st Initial) Mitch Brows	-			03/20/10	Date
Samplers (Last Name, Donna (40was) 1st Initial) Méters and Probes ID HQ40d: 2 2100Q: 2	Samily. *	DO: #	pm. 2	81/06/10	Date
naole Samplers Andrey Puin n (Last Name, Donne Howerd Houses	Salinitor 2	BO: 3	511.3	10	Session
Kamaole Samplers Andrey Puin n	4:1	210012	HQ400. 2	10	
Vamonolo	2.0	21000	TIONAL S		Icam
		OIL Sado.	Meters and Pr		
				170 7	THE P

1111	Kamaole I KKO180320	Cove Park KCP180320	Kalama Park KKP180320	Kihei South KKS180320	Waipuilani Park KWP180320	Sample ID		
9:40	9:17	8:58	8:45	8.10	7:53	Time		
24.6	E co	C. 42	8:45 23.8 33.8	X3 C4	22. 2	CO.	Temp	
34.4	34.3	8:58 24.7 37.7	33.8	33.7	32.5	(ppt)	Salinity	
9:40 24.6 34.4 6.47 95.0 8 17 0.73 0.78 0.79	9:17 24.8 34.3 6.61 97.3 8.19 0.99 1.15 1.22	6.29 91.2 814 1.85 2.55 1.50	5,99 86.2 8.13 3.83 3.33 3.37	8.16 23.8 33.7 6.15 89.5 8.16 3.88 2.56 3.00	7:53 22. 2 32. 5 6.34 87.9 8.06 8.11 9.02 9.66	(mg/L) (%)	Dissolved Oxygen	-
95.0	97.3	200	86.2	89.55	87.9	(%)	lved	
L: 8	8.19	11.00	٠. ان	8-16	8.06	Pm	H	
0.73	98.0	ON O	60	88.6	8. 1		I	
84.0	1.15	250	30 3	2.56	9.02	(NIC)	Turbidity	
0.79	1,22	1.50	3,37	000	9.66			
N	مع	0	N	0	-	(0-3)	Waves	-
0	0	-	-	-	w	(0-0)	Wind	
90	20	W	0	ى	0	water	People	
0	35	+	4	ō	(V)	beach	People (within 100 ft)	
٥	0	0	0	0	U¢	camp	(n 001	
					0		TSS	-
0 40 62 0				1 0			Nutrient	

	1
Wind: 0:	Waves: 0
calm;	100
3: genti	waves;
e breeze;	Ift: small
Wind: 0: calm; 3: gentle breeze; 6: strong breeze	Waves: Off: 110 waves; Iff: small waves; 2ft: knee high; 3ft: waist high
	high; 3ft:
	1sigw
	1189.11

M HIN OHECTION (Transported	Wind direction (Trades/Kona)	Rain conditions (last 24 hrs)	Cloud cover (0-8)	Moon day (from new)	Most recent tide time (falling or rising) High: 5:42 am (falling)	COASTAL AND ENVIRONMENTAL CONDITIONS
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Use the back of the form if needed.	NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
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	222	Door compliant
	0.08	Pre-sampling
-	0.03	Standard
	Blank	
	5.96 54.3	2.96 2.96 1.0w

		0	Bacteria
Geisse Burgeste	2 Mry	8	Nutrients
		0	Sediment
Contact	Relinquished to	# of samples	

CHAIN OF CUSTODY INFORMATION

GENREE G. BURNETTE B

Samplers (Last Name, 1st Initial)	03/20/18	Session 10	Team Kamaole
	V18	1st Initial)	
		16 was D.	

						Sediments	KKT180320-N-1	KKO180320-N-1	KCP180320-N-1	KKP180320-N-1	KKS180320-N-1	KWP180320-N-1 W	Nutrients	Sample ID L
							Kamaole III	Kamaole I	Cove Park	Kalama Park	Kihei South	Waipuilani Park		Location Name
0	0	0	0	0	0		2	Q				Q		Sample taken?
0	0	0	0	0	0		0	0	0					Storm sample?
							9:40	9:17	8:58	8:45	8:16	7:53		Time
500 ml		125 ml		Volume										
							Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		Protocol Notes
														Comments

Signature Geam Lead):

Gence 6. Bunkte to

Hui O Ka Wai Ola - Sample Concenton Consciones	Tible Consenou pa	distance of the same of the sa			
Team Makens		While A Friess Burnetto.	Meters and Probes ID	obes ID	
Leam Makens	Samplers	11 11 1100			2000
Carelon 10	(Last Name,	Shanor M	HQ40d: 2		2100Q: 2
Session to	1st Initial)	Charles.		,	S-Haira
03/21/18			pH: 2	DO: 2	Samily: 4
Date Operation					
			Pen	People (within 100 ft)	867

Date 05/21/10																
				Dissolved Oxygen	Oxygen		-	whichite		Waves	Wind	People	People (within 100 ft)	00 ft)		Nutrient
Location Name Sample ID	Time	(°C)	Salinity (ppt)	(mg/L) (%)	(%)	рН		(NTU)		(0-3)	(0-6)	water	beach	camp	8	duplicate
ng			11.0	10-	2000	2	j	i	2	-	2	2	1	3		0
	8.8	1.42	8:00 24.1 34.5 6:83 98:1 8.11 8.051.130.11	6.83	1.86	8.11	2.03	1.130	1.1.7	-	C		. 0	-		
	25.0	2/15	0-25 24 3 25 0 1.74 98.4 8.19 0.73 0.72 0.67 2	4.74	4.80	8.19	0.73	27.0	0.67	h	0	Q	7	0	0	
	7 50	J. 11 24 2	14 (V	6.73 976 815 1.93 2.54 2.48	976	7.	1.93	1.54	2,48	Q	W	0	0	0		
MON180321	8.11	W THE W		4117	1110	6350	61.10				1					
Makena Beach	200	242	0.04.743 35.0 6.76 986 8.20 0.33 039 038	6.76	98%	8,20	0.33	0.39	0.39	W	y)	10	0	0	0
I TCAOTCOIN	100	16100	0.	1		3	100	200	1 00	5	_	1	S	0	0	
MAN180321	9:40	124.4	9:40,424.4 34.8 7.28 (06,3 8.17 1,00 111 117)	7.28	106,3	71.0	1,00	1111	177	(-	4	((
Ahihi Kinau South	94:45	246	9:45 246 34.0 6.67 97.3 8.10 6.18 6.23	6.67	91.3	8,10	212	1.23	1.33	0	1	1 16 10x 0 0	10x 0	0	0	0

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

COASTAL AND ENVIRONMENTAL CONDITIONS	CONDITIONS
Most recent tide time (falling or rising)	Low: 12:04 pm High: 6:04 am (falling)
Moon day (from new)	4
Cloud cover (0-8)	6
Rain conditions (last 24 hrs)	200
Wind direction (Trades/Kona)	D - Wadis
Streams flowing? (Y/N)	N

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

			0	Bacteria
Gence Bensens		SWN	0	Nutrients
			6	Sediment
Contact	Relinquished to	100	# of samples	
100		ATION	TODY INFORM	CHAIN OF CUSTODY INFORMATION
576	34.6	6.88	0.04	Post-sampling
SHS 51/2	5.4.8	5,95	0.04	Pre-sampling
577	54.5	10.3	0.04	Standard
High	Med	Low	Blank	
			RIFICATION	TURBIDITY VERIFICATION

Signature Team Lady Printed Name:
Printed Name:
Signature Team Lady

Obonble G. BANGERS &

Hui O Ka Wai Ola - Sample Collection Datasheet

						Sediments	MAS180321-N-1	MAN180321-N-1	MBS180321-N-I	MON180321-N-1	MMB180321-N-1	MML180321-N-1	Nutrients	Sample ID	
							4-1 Ahihi-Kinau South	k-1 Ahihi-Kinau North	Makena Beach Shoreline	i-1 Oneuli	1-1 South Maluaka Beach	N-1 Makena Landing		Location Name	
0	0	0	0	0	0		R	R	Q	R	R	Q		Sample taken?	
0	0	0	0	0	0		0	0	0	0	0	0		Storm sample?	
							0945	0940	0909	0847	0825	0800		Time	
500 ml		125 ml	125 ml	125 ml	125 ml	125 ml	125 ml		Volume						
							Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	bottles; 0.2 um disposable filters		Protocol Notes	
														Comments	

Signature (Team Lead):

Re / Me (Longe 6. Gunderte &

People (within 100 ft)	People (w			
		The server	03/22/18	Date
DO: 2 Salinity: 2	pH: 2 DO	Ist initial) Navyer		Oceanon
7:00017	HQ40d: 2	(Last Name,	10	Session 10
21000		Samplers A. A.	North Nines	Team
ID	Meters and Probes ID		N. P. P.	
		NE COMPANION DIMENSION	THE - PLO	HIII O
			The state of the s	

Date 03/22/18 Time Temp Salinity Dissolved Oxygen pH Turbidity Waves Wind People (within 100 ft) TSS duplicate Sample ID Time (°C) (ppt) (mg/L) (°%) pH (NTU) (0.3) (0.6) water beach camp TSS duplicate Sample ID Nthe National Point Nthe National Point Nthe Canoe Club Nth	_									ALC: U
5.92 Waves (0-3) 4.41 54 4.31 56 4.31 56		Kalepolepo North NKN180322					Hayeraft Park NHP180322	Sample ID		
5.92 Waves (0-3) 4.41 54 4.31 56 4.31 56		10:00	9:45	9:25	91:10	8:43	8:20	Time		
5.92 Waves (0-3) 4.41 54 4.31 56 4.31 56		24.3	24.6	24.7	34.6	13,9	23.7	(0)	Temn	
5.92 Waves (0-3) 4.41 54 4.31 56 4.31 56		31.4	32,9	34.3	34.7	34.8	34.3	(ppt)	Salinity	+
5.92 Waves (0-3) 4.41 54 4.31 56 4.31 56		6.95	6.85	6.80	do.	6.84	6.86	(mg/L)	Dissolved	N W N
5.92 Waves (0-3) 4.41 54 4.31 56 4.31 56		99.2	99.0	99.5	\$100.	98.9	98,5	(%)	Oxygen	ence
5.92 Waves (0-3) 4.41 54 4.31 56 4.31 56		8,20	8.16	8.19	8.20	8,11	8.16	pri		
5.92 Waves (0-3) 4.41 54 4.31 56 4.31 56		4.26	2.79	3.95	2185	4.39	5.63		T	
5.92 Waves (0-3) 4.41 54 3.33 1 3.34 56		4.79	3,24		3.68		6.21	(NTU)	urbidity	
\$ 6 8 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		4.31			3	4.41	5.92			
Wind (0-6) People (within 100 ft) TSS duplicate / 4 2 8 0 </td <td></td> <td>3</td> <td>8</td> <td>B</td> <td>-</td> <td>4</td> <td>-</td> <td>(0-3)</td> <td>Waves</td> <td></td>		3	8	B	-	4	-	(0-3)	Waves	
People (within 100 ft) Water beach camp TSS duplicate 4 2 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wind: 0: c:	Waves: Off	Ç	0	1	ناو	-	(0-6)	Wind	
(within 100 ft) beach camp TSS duptient 2 8 0 0 0 0 3 0 0 0 0 2 0 0 0 0 2 0 0 0 0 3 0 0 0 0 3 0 0 0 0 4 0 0 0 0 7 0 0 0 0 6; small waves; 2ft. knee high; 3ft; waist high	ılm; 3: gentle	2 saves on	0	1	2	0	4	-	People	
camp TSS duplicate 8	breeze; 6:	ft: small wa	N	20		Co	7	beach	e (within)	
TSS Supplicate D D D D D D D D D D D D D D D	strong brees	O Nes; 2ft: kn	0	0	0	0	00	camp	(ft 00	
Nutrient duplicate	6	ce high; 31			0	1 0			TSS	
		t: waist high		. C) [1 0	0	anpinonce	Nutrient	

COASTAL AND ENVIRONMENTAL CONDITIONS	CONDITIONS
Most recent tide time (falling or rising)	High: 6:23 am (F)
Moon day (from new)	7
Cloud cover (0-8)	0
Rain conditions (last 24 hrs)	0
Wind direction (Trades/Kona)	Trade
Streams flowing? (Y/N)	Z

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

TURBIDITY VERIFICATION	RIFICATION			
	Blank	Low	Med	
Standard	0,04	5.91	54.5	Si
Pre-sampling	90,09	5.92	54.7	H
Post-sampling	0.03	88.5	54	8

CHAIN OF CUS	CHAIN OF CUSTODY INFORMATION	TION	
	# of samples	Relinquished to	Contact
Sediment			
Nutrients	6	NAS	Sopur
Bacteria			

Sopie de Capr

Hui O Ka / Ola - Sample Collection Datasheet

North Kibei Samplers (Last Name, Thunholm, K. Ist Initial)
muntolm, K

						Sediments	NKN180322-N-1 Kalepolepo North	NMP180322-N-1 Mai Poina Oe lau	NKC180322-N-1 Kihei Canoe Club	NSB180322-N-1 Sugar Beach 🗹 🗆	NKP180322-N-1 Kealia Pond	NHP180322-N-1 Haycraft Park 🗹 🗆	Nutrients	Sample ID Location Name Sample Storm taken? sample?	1
							10:00	9:45	9.25	9:10	8:43	8.20		Time	
500 ml		125 ml	125 ml	125 ml	125 ml	125 ml	125 ml		Volume						
							Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		Protocol Notes	
														Comments	

Signature (Team Lead):

Printed Name:

WUL180323 Wailea Beach WWA180323 WWA180323 WPL180323	WUL180323 Wailea Beach WWA180322	WUL180323	Ulua Beach	Keawakapu Beach WKB180323	Kilohana Dr WKD180323	Sample ID		Date 03/23/18	Session 10	Team wanca		Hui O Ka y .: Ola - Sample Collection Datasheet
			8:45	1	8005			18				Ola - Sampl
226	9:30 25.3 34.7 6.88 10.1.8 8.22 0,55 0.44 0.63 2	9.10 24.9 34.6 6.78 99.5 8.20 051 0.83 0.51	04.1 25.1 11.1 S1.8 226 ttg hh 8 876 54.8	15.00HO 58.0 08.8 1.001 58.0 6 46 4.46 02.8	820 121 360 E18 586 61.9 7.16 5.4C 50.8	(00)	Tamn		1st Initial)	Samplers		e Collection
4 = 5	34.7	34.6	344	34.9	34.4	(ppt)	Salinity				4	n Datashee
ナイプ	6.83	6.78	44.3	6.85	6.79	(mg/L) (%)	Dissolved Oxygen		or or riving		Tanie 1	
100.6	10.1.8	99.5	99.2	1.00.1	98.5	(%)	Oxygen		-	3	7	
8.21	8.22	8.8	8.12	8.20	41.8	рп			•			
9:50 25.6 34.7 GAT 100.6 8.21 0.77 0.86 074	0,55	150	11.11	0,35	0.96							
0.26	0.44	683	1.52	040	1,21	(UTV)	urbidity					
440	0.63	15.0	5	0.31	0.82							
-	1	N	-	-	0	(0-3)	Waves					
0	0	0	0	0	0	(0-6)	Wind	2 :Hd		HO40d- 2	Meters	
N		20	3 0	-	0	water	People			2	Meters and Probes ID	
10	, 6	18	2 5	2	0	beach	People (within 100 ft)	150.4	3		es ID	
0	9	3	2) 0	0	0	camp	(1) 001			21000:2		
0 0 0 0	0						TSS	ommin,	Calinitur 2			1
0		0) [0		an parameter .	Nutrient	1	3			

COASTAL AND ENVIRONMENTAL CONDITIONS	CONDITIONS
Most recent tide time (falling or rising)	Low: 1:32 pm High: 6:32 am (F)
Moon day (from new)	
Cloud cover (0-8)	7
Rain conditions (last 24 hrs)	i
Wind direction (Trades/Kona)	1
Streams flowing? (Y/N)	1

	Ç	Z
	Use the back of the form if needed.	NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
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	ifn	Z
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	d	ends
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	1	S).

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TURBIDITY VERIFICATION	Wave Wind:	s: Oft: no waves; If : O: calm; 3: gentle	Waves: Oft: no waves; 1ft: small waves; 2ft: knee high; 3ft; wast high Wind: 0: calm; 3: gentle breeze; 6: strong breeze FION	ree high; 3ft; ze
	Blank	Low	Med	High
Standard	0.02	16.5	54.5	445
Pre-sampling	0,00	5.91	54.6	570
Owner James to a least	004	tos	54.8	Sts

Bacteria	Nutrients	Sediment		CHAIN OF CUSTODY INFORMATION	Post-sampling	Pre-sampling	Standard
)	6	i	# of samples	STODY INFO	0.04	0.04	6.03
	7			RMATION	48.5	16.5	16.6
1	735	1	Relinquished to		8.48	54.6	1.20
1	ntas		Contact		54.5	245	

Afri de u

Hui O Ka y Cola - Sample Collection Datasheet

Session 15 Ist Initial) Of the North	Team	Wailea
	Session 10	10

		Canala	Storm			1	Comments
Sample ID	Location Name	taken?	sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD180323-N-1	Kilohana Dr	R	0	20:8	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB180323-N-1	Keawakapu Beach	B	0	8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL180323-N-1	Ulua Beach	B	0	8:4	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WWA180323-N-1	Wailea Beach	B	0	9,10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL180323-N-1	Palauca		0	9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO180323-N-1	Poolenalena	12	0	9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		0	0		500 ml		
		0	0		500 ml		
		0	0		500 ml		
		0	0		500 ml		
		0	0		500 ml		
		0	0		500 ml		

Signature (Team Lead):

Sofra de la sta