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



Session No:	(pre sumpring):			Verifiers (post-sampling):	g): Post Date: Po	
91	Sharpe, St-Louis	1/3/2023	0945	M Sharpe, L. Yannell	1/6/23	9:45 AM

QA/QC Check	Inst #	Probe #	Last Cal Date		PR Verificat			ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	<u>NIST</u> 24.4 °C	NIST 241.2 °C	NIST °C	NIST 27.9°C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	- 1	2	6/28/24		24.3		-				
	1	3	6/25/24			23.8	12-17	28.0		NIST Exp June 2024	
Salinity			3 months	Std Val	Tap water 0.13	Salin Std 9/29/22date 33.7 ppt	Tap water	9/29/22date 33.7 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	2	10/24/22		0.16	33.4	_				
200	1	3	10/24/22		0.17	33.3	0.17	33.1			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	±5%	and Transfer to the	
	1	1 2	12/05/22		104.3	3	99	.le —		Broken shroud still stuck could not take off	
рН			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	
1/3/2023	and and	5	1/3/2023		7.04	10.03	7.03	10.02			
	Congguerate	4	1/3/2023		7.00	9.98			,		
Turbidity		1	3 months	Std Val	BLANK <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
1/3/2023	5	n/a	11/14/22		0.06	6.93	0,08	6.82		Low 6,91	
, - , - ~	2	n/a	11/14/22		0.07	6.75	_	-		Low: 6.73	

NMS Lab

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

^{*} Other equipment issues?

Team Wailea-Makena	Samplers	B Sousa, D. Bentley	Meters and	Probes ID		
Session 91	(Last Name, 1st Initial)	J. Danning	HQ40d: 1		2100Q: 5	
Date 01/04/2023			pH: 5	DO: 1	Sal	inity: 1

				Salinity	Dissolved	Oxygen			100		Peopl	e (within 1	00 ft)
Location Name Sample ID	Freshwater 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
Cove Park KCP230104	Y	7:55	24.1	32.5	6.62	94.4	8.08	3.31	3.20	3.11	Ø	\$	2
S Maluaka Beach MMB230104	N	8:40	24,9	35,2	6.82	1006	8.15	2.31	2,37	2.26	Ø	Ø	ø
Ahihi Kinau North MAN230104	N	9:04	250	34.9	7.14	105.0	8.09	1.02	1.39	1.27	DI	6	Ø
Ahihi Kinau South MAS230104	N	9:20	24.8	34.1	6.64	97.0	8.04	1.97	1.90	2.03	Ø	10	Ø

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

cove park water running in creek absorbed turb. 4th read 3.11 hot flowing

MMB- High tide, moderate surfishorebreak

Ad filter because sand clogging filter

Man High tide #4 Hareading tubidily

MAS moderate surf

Tides L @ 10:10 am 3.6'swell Wind Ne7mph Kine; H @ 3:50 am 3.6'swell Wind Ne7mph Janot

Sites with potential for freshwater flow: Cove Park

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	6.91	60.1	608
Pre-sampling	0.04	6.97	60.1	609
Post-sampling	0.05	6.91	60.0	609

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	4	NM3	Sharpe
Bacteria	-	-	

Signature (Team Lead):	Printed Name:	
CKZ	Sharpe	

Team	Wailea-Makena	Samplers	Sousa, B	
Session	91	(Last Name, 1st Initial)	Bentley, D	
Date	01/04/2023		Punning, J	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients				am			
KCP230104-N-1	Cove Park	8		07:59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB230104-N-1	S Maluaka Beach	Z		8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN230104-N-1	Ahihi Kinau North	Z		9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS230104-N-1	Ahihi Kinau South	Ø		9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Printed Name: Sharpe	
Starpe	

Than the War the Same on religious Dimension

Team	North Kihei	Samplers	1. 01 1/01 1. 1 71 8 1.	Meters and	Probes ID		
Session	91	(Last Name, 1st Initial)	Angela Helgeland, Flo Bahr	HQ40d: 1		2100Q:	5
Date	01/05/2023		Ytenia Mayen St-Louis	pH: 5	DO: 1		Salinity: 1

				Salinity	Dissolved	l Oxygen					Peopl	e (within	(00 ft)
Location Name Sample ID	Freshwater 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
Maalaea Harbor NMH230105	N	7:54	24.6	34.9	6.40	93.7	8.15	0.93	0.92	0,91	0	0	0
Maalaea Condos NMC230105	N	0813	24.6	34.2	6.58	969	8.06	4.24	4.30	4.23	0	3	0
Haycraft Park NHP230105	N	0835	24.8	34.8	6.73	98.7	8.14	7.61	7.74	7.60	2	1	0
Kealia Pond NKP230105	N	0859	24.7	35.3	6.86	100.8	8.19	0.68	0.77	0.82	0	5	0
Kihei Canoe Club NKC230105	N	0917	254	34.2	6.57	97.2		35.4	36.2	34.2	0	0	0

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

Use the back of the form if needed.

NMH- Calm Harbor, No wind

NMC- Water Calm, tide is going out

PARTICLES INSAMPLE WATER (turbidity)

NHP- One Person welking by Water calm

light wind.

NKP- Swell is small, No wind.

NKC- Water is brown, calm, water

in sample brown.

Sites with potential for freshwater flow: Maalaea Harbor, Maalaea Condos, Kealia Pond, Kihei Canoe Club

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1 80)	High (+/- 18)
Standard	0.05	6.91	60.0	609
Pre-sampling	0.08	6.92	60.4	61060
Post-sampling	0.05	6.90	60.3	609

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	yous
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:
ymogas	Ylenia M St-Louis

Team	North Kihei	Samplers	A. Helgeland	
Session	91	(Last Name, 1st Initial)	F. Bahr	
Date	01/05/2023		4. St-Louis	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
lutrients							
NMH230105-N-1	Maalaea Harbor			0754	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC230105-N-1	Maalaea Condos	8		0813	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP230105-N-1	Haycraft Park	D.		0835	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP230105-N-1	Kealia Pond	æ		0859	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC230105-N-1	Kihei Canoe Club	Ø		6917	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	
			500 ml	
		15	500 ml	
			500 ml	

Signature (Team Lead):	Printed Name:	
Megn	Ylenia M St-Louis	

That I ke War Cha- Sample Collection Datashee

Team	Kamaole	Samplers	H. Heilt, Scott Braves, Dan Crevoer	Meters and P	robes ID		
Session	91	(Last Name, 1st Initial)	M Sharpe	HQ40d: 1		2100Q:	5
Date	01/06/2023			pH: 5	DO: 1		Salinity: 1

				Salinity Dissolved Oxygen					e (within 1	100 ft)	
Location Name Sample ID	Freshwater 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
Kalepolepo North NKN230106	N	9:09	24.6	34,5	6.23	90,4	8.09	6.52 5.93 6.91	0	2	0
Waipuilani Park KWP230106	N	8:36	23.9	32,6	6.63	94.1	8,05	24.9	0	0	2
Kihei South KKS230106	N	8.57	25,5	34.1	5.96	87.9	8.12	1.95 7.16 6.54	1	12	t
Kalama Park KKP230106	N	9:15	25.1	34.6	6.31	92.7	8.11	2.84	2	4	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed. NKN-6.87 Ath Acadim Midium 71 be site 2 - Calm, yrind low, No waves, Silt site 3 Caln, windlow, Nowaves, Siltin water. Siltin water. Siltin water. The proof ing **A subgoing tide = low fide @ llam **No share breaks: calm water small waves **Unsympteent wind = all sites

Sites with potential for freshwater flow: All

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.91	60,1	608
Pre-sampling	0.07	6,84	59.8	600
Post-sampling	0.06	7.06	60.4	610

	# of samples	Relinquished to	Contact
	o. samptes	remiquisited to	Contact
Sediment	-	-	-
Nutrients	4	MMS	Thaipe
Bacteria	-		-

Signature (Team Lead):	Printed Name:
CAS	Sharpe

					The state of the s	
Team	Kamaole	Samplers	Heiht H	Sharpe, M		
Session	91	(Last Name, 1st Initial)	Graves's			
Date	01/06/2023		Gever, D			

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN230106-N-1	Kalepolepo North	P		9:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP230106-N-1	Waipuilani Park	Þ		8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS230106-N-1	Kihei South	P		8:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP230106-N-1	Kalama Park	9		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Printed Name:	
Sharpe	
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