

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



Post Date: Post Time: Verifiers (post-sampling): Pre Date: Pre Time: Verifiers (pre-sampling): Session No: 11:45 AM Yannell 14:15 PM Lyannell FRZ

QA/QC Check	Inst #	Probe	Last Cal Date		PR Verificat	tE: ion Value	PO Verificat	ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 25.2 <sub>°C</sub>	NIST <u>°C</u>	NIST 32.7c	NIST <u>°C</u>	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	8	6/28/2024		25.0		32.5				
	_	_	and the second					_		English State of the Control of the	
Salinity			3 months	Std Val	Tap water	Salin Std 8/1/13 date 33.7 ppt	Tap water	Salin Std 8/7/23date 33.7 ppt	±1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	4	8	8/7/2023		0.04	33.6	0.19	33.4		Kula tap water (0.04 ppt the last time we used Kula H20)	
	_	_	-				_	_		post sampling tup water	
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	4	4	7/17/2023		103.	7	102-8				
	-	-			-		E-ph				
рН			3 weeks	Std Val	pH 7.00	pH 10.00	pH 7.00	pH 10.00	$\pm 0.1$ pH of pH std value	Compare to Manufacturer pH Std value on bottle	
	4	6	8/30/23		6.99	9.96	6.99	9.99		PH 7+10 EXP 5/2024	
		_				_	_	-	117.500 117.500 117.500 117.500		
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	<u>BLANK</u> <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	2	n/a	8/7/23		0.05	6.37	0.06	6-36		spare blank = 0.05 (Pre)	
	-	n/a			_	-	_	-			

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

\* Delay times are ok?

\* Other equipment issues?

Pre: LYL lab POST: NMS Lab

Hin O Kashar Ola Sample Collection Databaset

Team	Response	Samplers Hutchine	10,1		
Session	2	(Last Name, DCVG, L.  1st Initial) HCDe Pro-	Itche mann C		
Date	09/07/2023	Yannell,	1/1/		

Meters as	4 40		/ all in
THE DE DE STOLL AND	1.00 W 40	LOBILLARIUS II	2.9

HQ2200: SM / 4 ZA 21000: SM 2

	Possel			Salinity	Dissolved Oxygen			W. Alder		People	(within)	160 ft)	
Location Name Sample ID	Fresh water Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L) 5.2-7.0 normal	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
Canoe Beach RCB230907	N	5.35A	26,84	34.7	7.0	105.5	8.13	2.80	7.88	3.694	ن ن	0	0
Wahikuli RWA230907	N	9:104	26.54	341.9	6.88	104.1	8.16	3.72	408	3.97	0	0	0
Camp Olowalu OCO230907	N	9:500	27.4	35,3	6.77	103.3	8.04	6.81	6.62	7.05	0	0	1
Mile Marker 14 OMM230907	N	10:10x	27.1	35.1	6.49	98.6	8.0	5.06	5.47	5.30	200+	0	0
		- 0		-1		Sugar Person							

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

Use the back of the form if needed.

RCB-SUNNY, Shore Dredk; took temp 2\*

RWA-SUNNY, Shore break, brown water

OCO-SUNNY, Small shurebreak,

Breeze pickuig up after sample

Debois on Blach

OMM-SUNNY breezy, Shore break, no clebris

anga-shipas - was kisangan maga	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0,05	6.31	56-8	601
Field - Pre-sample	80.0	6.38	56.8	COZ
Lab – Post sample	0.06	6.36	56.4	602
Probes (+/- 0.2 °C)	26.70.0	265 Salinity,	pH	Notes
Verify Probe Temps	-126.5	76.80	26.8	

	CHAIN OF CUSTO	DY INFORMATION	
	# of samples	Relinquished to	Contact
Nutrients	4	NMS	liz Yannell

Signature (Team Lead):

Printed Name:



Team	WM Fire Response	Samplers	Hutchings, L.	
Session	2	(Last Name, 1st Initial)	Berg, L.	
Date	09/07/2023		Hellemann, C.	

Sample ID	<b>Location Name</b>	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RCB230907-N-1	Canoe Beach	Ø		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA230907-N-1	Wahikuli	Ð		9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO230907-N-1	Camp Olowalu	Ь		9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OMM230907-N-1	230907-N-1 Mile Marker 14				Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		

Sediments					
			500 ml		
			500 ml	20 M 30 30	
			500 ml		
			500 ml		4

Signature (Team Lead):	Printed Name:
Lis youll	Liz Yannell

Hui O Kari Ola - Sample Collection Datasheet Mannell, L.
Callender, T.
Kimmel, J. (DAR) Meters and Probes ID Lanaina Town Samplers Team Fire Response HQ2200: SM 2 4 y 2100Q: SM 2 pH: SM 6 DO: SM 4 Salinity (Last Name, Session 1st Initial)

Turbidity Space blank

					Dissolved	Oxygen	7.5				People (within 100 ft)		
Location Name Sample ID	Fresh water Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L) 5.2-7.0 normal	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
Mala Tavern LMT230905	N	7:22	26.1	35.0	6,80	101.4	7.99	2.21	1.82	1.66	6	0	0
Mala Ramp LMR230905	Small	7:51	26.7	34.5	6.51	97.6	8.07	5.38	6.52	6.89	0	0	0
Papalaua St LPS230905	N	8:19	26.7	35.2	6.77	102.1	8.84	2.33	2,72	3.21	0	0	0
Lahaina Harbor LLH230905	N	8:44	27.4	35.0	5.87	89.8	8,08	0.81	0.73	0.78	0	0	0
505 Front St PFF230905	N	9:13	27.7	35.3	6.68	103.3	8-11	2.91	3.27	2.83	0	0	0
Lindsey Hale PLH230905	N	9:55	28.4	35.1	6.49	101.3	8.06	19.0	22.2	22	0	0	0
Lahaina Town PLT230905	N	10816	28.7	34.7	6.52	101.8	8.06	61.4	61.1	59.2	0	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form it needed.  LINT - read PH Zx to confirm; rot smell from mala Tavern; Tide Falling next Low=12:39 PM
line of the lace lace and the debtis
LLH- much less oil + ash in harbor and
PFF-Small shorebreak, Sun, no clouds, light breeze, PFF-Small shorebreak, Sun, no clouds, light breeze, PFF-Small should be week, Same a mount of water in flooded parking lot (week, PLH-Brown with, fine sediment, Sand in Sample. 4th turbi
The second of th
PLI- extremely brown water flow: 505 Front St, Mala Ramp

Date

09/05/2023

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.05	6.31	56.8	601
Field – Pre-Sample	0.06	6.36	56.0	599
Lab – Post Sample	0.04	6.34	56.5	601
Probes (+/- 0.2 °C)	D.O	Salinity	pН	Notes
Verify Probe Temps	25.9	26.1	26.0	
CHAIN OF CUSTODY	# of Samples	Relinquish to	Contact	
Nutrients	7	NMS	Liz Yannell	

Din nater real sample collection

Last updated April 2023

Salinity: SM 8

Team	Lahaina Town Fire Response	Samplers (Last	Yannell, L.
Session	2	Name, 1st Initial)	Calleneder Callender
Date	09/05/2023		Kimmel, J. (DAR)

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
lutrients							
LMT230905-N-1	Mala Tavern	<b>d</b>		7:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
LMR230905-N-1	Mala Ramp	9	18-19-18-18-18-18-18-18-18-18-18-18-18-18-18-	7:51	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
LPS230905-N-1	Papalaua St.	<b>B</b>		8:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
LLH230905-N-1	Lahaina Harbor	o'		8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PFF230905-N-1	505 Front St	<b>a</b>		9:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	- official and a second second second
PLH230905-N-1	Lindsey Hale	0		9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT230905-N-1	Lahaina Town	0		10:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	mhel 2 x

Sediments					
			500 ml		
		2	500		
			ml 500	A STATE OF THE STATE OF	La Company of the Com
3 - 1			ml	1000	

Signature:	11	Print:	- 1
Xm	January	LIC Jariver	