

FIELD EQUIPMENT VERIFICATION PRE and POST at Weekly Sampling Session No: Verifiers (pre-sampling): Post Date: Post Time: Pre Time: Verifiers (post-sampling): Pre Date: M. Sharpe, L. Yannell 8/28/23 11:15 AM M. Sharpe, Y.St-Louis 08/31/2023 0930 FR! Last Cal PRE: POST: Check Acceptable QA Inst # Probe # Comments/ Notes Date Verification Value Verification Value Range Std NIST NIST NIST NIST NIST Exp. **NIST** Temperature Val Compare to NIST Std value in tap water ± 0.6 °C of NIST Date 32.3°C °C 31.1 31.1 8 6/28/24 32.2 31.0 6/28/24 32 32.2 31.0 Std Tap water Saline Std Tap water Saline Std Tap water - compare pre & post Values 8/7/3 date Salinity 8/7/23 date Meter# Probe # 3 months Val Salinity Std - compare to value on ±1 ppt 33.7 ppt 0.13 33.7 ppt 0,13 Salinity Std bottle 3 8/7/23 0.18 34.0 34.2 0.18 8/7/23 24 8 33.5 0.17 0.18 33.7 Dissolved Std Meter# Probe # 1 year 100% 100% ±5% Oxygen Val 4 17 July 2023 102.2 103.6 3 17 14 2023 Probe reads low % Tested 2 x 3 88 101.7 Std Val на Compare to Manufacturer pH ± 0.1 pH 3 weeks Meter # Probe # pH 7.00 pH 10.00 pH 7.00 pH 10.00 Std Value of pH std value on bottle 4 prohesu #4 recalibrated 08/28/2 10.01 7.00 7.00 10-00 08/28/2 7.00 10-01 7.01 10.01 8/30/23 because they read low in field 2x. Just out Compare to Gel LOW 1-10 Std blank + 0.18 NTU blank Low 1-10 Low 1-10 Turbidity Probe # 3 months Meter # Val < 0.1 < 0.1 Low 1-10 Std Calibration Value NTU NTU LOW Std = 631 6.37 0.05 8/7/23 0.04 6.34 56.4 Spare Blank Pre= 0.05 8/7/22 LOW Std = 6.54 6.53 0.06 0.06 58.3 6.43 Spare Blank Pre= 0.05

NMS lab

Har Cl k . Jia - Sample Collection Datashee

Team	WM Fire	Camplana
	Response	Samplers (Last Name,
Session	1 132	1st Initial)
Date	08/29/2023	3 Se 1856 Se

Yanell, LI Gurd, M Gund, KI Floyd, M (Bicser, S.

Meters and Probes ID		
HQ2200: SM 3	210	0Q: SM 5
nH: SM 15 77 DO: S	SM 3	Salinity: SM 7

				Callada	Dissolved	Oxygen					Peopl	e (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	1-1	Turbidity (NTU)		water	beach	ach cam
Canoe Beach RCB230829	N	8: 300m	26.5 y	35.3	6.77	101.7	8.15	3.21	3.34	3.29	0	2	Ø
Wahikuli RWA230829	N	9:04an	26.8	35.0	6.73	101.4	8.18	3.55	3,77	4.45mg	0	0	Ø
Camp Olowalu OCO230829	N	9:45	27.0	36.0	6.58	100.1	8.05	12.8mg	13.5	13.1	0	0	Ø
Mile Marker 14 OMM230829	N	10:04 an	27.2	35.9	6.42	97,9	8.04	3.24	2.92	3.05	0	Q	0
				n					xy		51		

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

RCB: Water abit brown, lifequards on ATVs

Sand in samples light breeze, 1-2ft surf

RWA: more charnell up than normal, 1-2ft surf

4th turbidity taken normal, 1-2ft surf

OCO: Slight brown water, 1' surf; 4th turbidity taken

OMM: calm, clear, 4th turb. 2.92

RCB: Read the temperatures at first site 2x and they seemed to stabilize then 1st temp read = DO: 26.2 SAL: 26.6 PH: 26.5

TURBIDITY	VERIFICATIO	N & PROBE	TEMPERATU	URES
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.06	6.54	58.4	605
Field – Pre-sample	0.05	6.51	58.7	606
Lab – Post sample	0.05	6.59	58.3	605
Probes (+/- 0.2 °C)	D.O	Salinity	pH	Notes
Verify Probe Temps	26.3	26.5	26.5	1st DO TEN

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Nutrients	4	NMS	12 Mannel				

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1 111
ll

Printed Name: Liz Yannell

Team WM Fir		Yannell, L.	Gund, M.
Session 1	(Last Name, 1st Initial)	Gund, K.	Floyd, M.
Date 08/29/2	023	Bieser, S.	

Sample ID	Sample ID Location Name		Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RCB230829-N-1	Canoe Beach	ď		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA230829-N-1	RWA230829-N-1 Wahikuli			9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO230829-N-1	Camp Olowalu	0		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OMM230829-N-1	Mile Marker 14	D D		10:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	2 X2

シェクリナ	For	d	Taken at RCB, RWA, OCO, OMM	500		
ENT	BMIT			ml	11:	
SVOC +	WH Mano	~ 🗹	Taken at RWA @ 9:04 am - Attempted to add	45500 ml		
				500 ml		
		П		500		
				ml		

Signature (Team Lead):	Printed Name:
Ly Imill	Liz Mannell

Lahaina Town L. Yannell Samplers Team Fire Response (Last Name, T. Callender R. Sparks (DAR) Session 1st Initial) 08/30/2023 Date

Meters and Probes ID

HQ2200: SM 3

2100Q: SM 5

pH: SM / 5 2 DO: SM 3

Salinity: SM 7

Г					G 11 14	Dissolved	Oxygen					People	e (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
	505 Front St PFF230830	N	10:40	29.4	361	7.22	115.7	8.10	1.77	2.18	1.75	0	0	0
	Lindsey Hale PLH230830	N	11:45a	30.5	35.7	6.74	109.7	8,10	8.12	8,44	8,71	0	0	0
	Lahaina Town PLT230830	N	12:25p	31,9	3509	6.70	111.3	8.11	9.59	12,2	9.99	0	0	0
LMT	Mala tavern istorm drain outfall	N	7:34a	26.3	35.7	6.69	100.2	B.06	1.89	2.03	2.434	0	0	0
LMP	Mala Ramp (Kahoma Stream)	Y	8:23a	25.8	24.2	7.10	99.4	8.20	5.280	8.26	7.17	0	0	0
LPS	Papalaua St. (Storm drain)	N	9:08a	24.9	35.2	4.63	1004	8.11	4.21	5,47	5.04	0	0	0
LLH	Lahaina Halbor 230830	N	9:50	29.3	35.7	5.82	92.0	8.07	1.71	2.38	1.43	0	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed.
mala Read 00 2x for temp, awful smell
from garbage bins; immediate area next to
from garbage bins; immediate area next to sample site isn't burned but mauka
is uth har lautia
mala Ramp-Lots of ash in samples, stream flow
mala Ramp-Lots of ash in samples; stream flow is steady light breeze; no temp/sal temp is spot
Papalaua - ash in stormdains - surrounded by burn areas Papalaua - ash in stormdains - surrounded by burn areas
tarbor-burn an avoures made after filted be of oil

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.06	6.54	58.4	605
Field – Pre-Sample	0.06	6.48	58.3	605
Lab – Post Sample	0.06	6.52	58.7	1004
Probes (+/- 0.2 °C)	D.O	Salinity	pH	Notes
Verify Probe Temps	2 260	26.3	26.2	DIDS P
CHAIN OF CUSTODY	# of Samples	Relinquish to	Cor	ntact
Nutrients	7	NMS	Liz yannell	

- Hach prope measures made after fitted be of oil in Signature (Team Lead): In youll Print: Liz yoursell

Sites with potential for freshwater flow: 505 Front St

- for turbidity, using spare vial - 0.19 -0.05 4 (did not filter turbidity samples before testing)

- blank spare reading in field. Read 0.05 NTU at post verification

More notes on back of sheet in lab.

PFF Durned area all around except for 505 Front So. White building (photo taken). Water looked surprisingly clear. Foul water pooling in SOS Front St. parking structure. Voc/svoc sample collected from parking structure.

PLH-area so burned, it was difficult to find site. Water brown. Hard to filter nutrient sample. Broke tothe "nutrient bottle.

PLT- to " large metal debris in the water when sampling. Water brown.

ENT samples taken for Surfrider @ PFF, PLH, + PLT

Team	Lahaina Town Fire Response	Samplers (Last	L. Yannell
Session	1 , 0	Name, 1st Initial)	IT. Callender
Date	8/29/2023 8/30/23		R. Sparks

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF 230830-N	505 Frond 1 St.	Ø		10:40 am	125 ml	Washed, rinsed syringes, acid washed bottles; 0.2 um disposable filters	
PLH 230830-N-1	Lindsey Hale	Ø		11:45 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT 23083U-N-1	Lahaina Town	र्ष		12:25 pm	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	near Kanawa Stree
LMT 230830-N-1	Mala Tavern	M		7:34 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Storm drain outfall
LMR230830-N-1	mala Ramp	ष		8:23 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	next to stream outlet: Kahona Stream
LPS 230830-N-1	Papalaua St	Ø		9:08 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	storm drain out a
LLH230830-N-1	Lahaina Harbo			9:50am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	oil slick on surface of sample
l man		din			125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments ENT S	amples		*
8/30/23 10:40 am	PFF 230830 "505 Front St"	500 ml	
8/30/23 11:45am	- Hindse PLH230830 1' Kana'ula Road"	500 ml	
8/30/23 12:25 avr 15	0 PLT 230830 "Shark Pit"	500 ml	

Signature:	Print:	
7 mil	Liz Mannell	
	Last updated August 20	023

Team	Lahaina Town Fire Response	Samplers (Last	L. Yannell
Session	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Name, 1st Initial)	IT. Callender
Date	8/30/2023		R. Sparks

Elter sample included

Sample 1D	Location Name	Sample taken?	Duplicate sample?	9 Time	Volume	Protocol Notes	Comments
Metal Samples							
Mala tavern 230830	LMT230830-M-	1 🗹		7:34 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 unr disposable filters	Storm drain out fall
Mala Ramp 230830	LMR230830-M- LMR230830-M-	2	Ø	8:23 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Next to Kahona stream outlet.
Papalana St. 230830	LPS230830-M-	1 5	Ø	9:08 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	storm drain outfall
Lahaina Harbor	LIH 230830-M	-2	Ø	9:50 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	of sample
505 Frant St 230830	PFF230830-M- PFF230830-M	1	Ø	10:40 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Lindsey Hale 230830	PLH230830-M PLH230830-M		Q	11:45 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Lahaina Town 230830	PLT 230830-M-			12:25 pm	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	whitered sample Near Kauanla Street

VOC/SVOC Samples 2 Warriguli /	225 MI HCI added to sample		Time	Date
RWA230829-1 Wakikuli	~ I'm of HCI accidentally attempted to add	40 ml	9:04 am	8/29/23
Papalana 230830-1 Papalana St		40 ml	9:08 am	8/30/23
Sos Front St 230830-1 Stos Front &	Bubble in sample	40 ml	10:40 am	8/30/23
SOS Front St PArking lot 230830-2 "Lot "	Both samples taken from flooded parking. Stagnant water	40 ml	10:40 am	8/30/23

Lahaina Harbor 230830-1 / 9:50 am 8/30/23
Lahaina Harbor 230830-2 / 9:50 am 8/30/23

oil slick on top of water at sample site.

Lass update