

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

| Session No: | Verifiers (pre-sampling): | Pre Date: | Pre Time: | Verifiers (post-sampling): | Post Date: | Post Time: |
|-------------|-----------------------------|-----------|-----------|----------------------------|------------|------------|
| 45 | Maxwell, C., Strickland, J. | 9/17/18 | 9:30 am | Homo, L., Maxwell, C. | 9/21/18 | 10:45 am |

| QA/QC Check | Inst # | Probe # | Last Cal Date | | PRE: Verification Value | POST: Verification Value | Acceptable Range | Comments/ Notes | QA? |
|------------------|--------|----------|---------------|------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---|
| Temperature | NIST 2 | n/a | n/a | Std Val | NIST 22.9 °C | NIST 22.3 °C | NIST 25.9 °C | ± 0.6 °C of NIST | Compare to NIST Std value in tap water |
| | 1 3 | n/a | | | 22.9 | | 25.6 | | |
| | 1 2 | n/a | | | 22.3 | | | | |
| Salinity | | 3 months | Std Val | Tap water | Salin Std 8/28/18 date 32.6 ppt | Tap water | Salin Std 8/28/18 date 32.6 ppt | ± 1 ppt | Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle |
| | 1 3 | 8/6/18 | | 0.03 | 32.8 | 0.04 | 32.6 | | |
| | 1 2 | 8/6/18 | | 0.03 | 32.8 | | | | |
| Dissolved Oxygen | | 1 year | Std Val | 100% | 100% | | ± 5 % | | |
| | 1 1 | 4/2/18 | | 99.4 % | 99.3 % | | | | |
| | 1 2 | 8/6/18 | | 100.0 % | | | | | |
| pH | | 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 5 | 9/17/18 | | 7.00 | 10.01 | 7.04 | 10.06 | | |
| | 1 6 | 9/17/18 | | 7.00 | 10.01 | | | | |
| Turbidity | | 3 months | Std Val | BLANK <0.1 | LOW 1-10 6.26 NTU | BLANK <0.1 | LOW 1-10 6.26 NTU | ± 0.18 NTU Low 1-10 | Compare to Gel LOW 1-10 Std Calibration value |
| | 3 | n/a | 8/27/18 | 0.05 | 6.29 | 0.06 | 6.33 6.41 CM | | |
| | | n/a | | | | | | | |

QA: * Are pre- and post within one week? CM - for retest at LOW 1-10 (on 9/21/18) cleaned off glass & retested
 * Delay times are ok?
 * Other equipment issues?

| | | | | | | | | | | | | | | |
|---------|---------|---|--|--|--|--|--|--|--|--|----------------------|---|--------|---|
| Team | R2RS | Samplers (Last Name, 1st Initial) | Freiberg, T. Jarmakani, B. Maxwell, C. | | | | | | | | Meters and Probes ID | | | |
| Session | 45 | | | | | | | | | | HQ40d: | 1 | 2100Q: | 3 |
| Date | 9/18/18 | | | | | | | | | | pH: | 5 | DO: | 1 |

| Location Name Sample ID | Time | Temp (°C) | Salinity (ppt) | Dissolved Oxygen | | pH | Turbidity (NTU) | | | Waves (0-3) | Wind (0-6) | People | | | TSS | Nutrient duplicate |
|-------------------------------|------|--------------|-------------------|------------------|------|------|--------------------|------|------|----------------|---------------|--------|-------|------|-----|-----------------------|
| | | | | (mg/L) | (%) | | | | | | | water | beach | camp | | |
| Napili Bay RNS180918 | 8:11 | 25.7 | 33.4 | 6.30 | 93.1 | 8.09 | 10.1 | 11.1 | 10.8 | 1 | 1 | 0 | 5 | 6 | □ | □ |
| Pohaku RPO180918 | 8:39 | 26.5 | 32.6 | 6.41 | 95.8 | 8.19 | 5.02 | 4.91 | 4.43 | 0 | 1 | 0 | 2 | 0 | □ | □ |
| Kaanapali Sh RKS180918 | 8:57 | 25.8 | 34.3 | 6.36 | 94.7 | 8.14 | 7.38 | 7.58 | 7.21 | 1 | 1 | 0 | 5 | 0 | □ | □ |
| Canoe Beach RCB180918 | 9:18 | 27.6 | 34.3 | 6.38 | 97.9 | 8.19 | 7.81 | 7.85 | 7.59 | 1 | 0 | 0 | 6 | 0 | □ | □ |
| Wahikuli RWA180918 | 9:34 | 27.7 | 34.0 | 6.46 | 99.3 | 8.22 | 0.74 | 0.75 | 0.76 | 1 | 0 | 0 | 1+ft | 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 | | |
|---|-------------------------------|-----------------|
| Most recent tide time (falling or rising) | Low: 4:17 AM | Lahaina Station |
| | High: 12:57 PM | Lahaina Station |
| Moon day (from new) | 9 | |
| Cloud cover (0-8) | RNS-4/RPO-2/RKS-1/RCB-1/RWA-1 | |
| Rain conditions (last 24 hrs) | ? | |
| Wind direction (Trades/Kona) | Trades | |
| Streams flowing? (Y/N) | RPO-N | |

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

Use the back of the form if needed.

RNS - light sprinkles while there

RPO - sunny, no rain

RKS - sunny, no rain/ auto reset of time date here - reason unknown
- water in channel but fairly clear - not much flow

RCB - sunny, no rain

RWA - sunny, no rain

| TURBIDITY VERIFICATION | | | | |
|------------------------|-------|---------|------|------|
| | Blank | Low | Med | High |
| Standard | 0.07 | 6.26 | 55.7 | 604 |
| Pre-sampling | 0.10 | 6.33 cm | 56.5 | 605 |
| Post-sampling | 0.08 | 6.35 | 56.6 | 605 |

CHAIN OF CUSTODY INFORMATION

| | # of samples | Relinquished to | Contact |
|-----------|--------------|-----------------|-----------|
| Sediment | 0 | LHS | C Maxwell |
| Nutrients | 5 | LHS | C Maxwell |
| Bacteria | 0 | | C Maxwell |

Signature (Team Lead):

Catherine Maxwell Catherine Maxwell

Printed Name:

WATER QUALITY SAMPLING:

| Team: | Samplers: | Last Name, 1 st Initial | Date: |
|-----------|---------------------------------------|------------------------------------|---------|
| R2RS - 45 | Freiberg, T, Jarmakani, B, Maxwell, C | | 9/18/18 |

| Sample No | Location Name | Sample taken? | Storm sample? | Time | Vol (mL) | Protocol notes | Comments |
|----------------|---------------|-------------------------------------|--------------------------|------|----------|--|--------------------------|
| Nutrients | | | | | | | |
| RNS180918-N-1 | Napili Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:11 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RPO180918-N-1 | Pokahu | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:39 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RKS180918-N-1 | Kaanapali Sh | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:57 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RCB180918-N-1 | Canoe Beach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:18 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RWA180918-N-1 | Wahikuli | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:34 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| Sediment - TSS | | | | | | | |
| RNS180918-S-1 | Napili Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RPO180918-S-1 | Pokahu | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RKS180918-S-1 | Kaanapali Sh | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RCB180918-S-1 | Canoe Beach | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RWA180918-S-1 | Wahikuli | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |

Signature (Team Lead):

Catherine Maxwell

Print name here:

Catherine Maxwell

Hui O Ka Wai Ola - Sample Collection Datasheet

| | | | | | | | | | | | | | | | |
|---------|---------|---|--|--|--|--|--|--|--|--|----------------------|---|--------|---|-----------|
| Team | Polanui | Samplers (Last Name, 1st Initial) | | | | | | | | | Meters and Probes ID | | | | |
| Session | 45 | | | | | | | | | | HQ40d: | 1 | 2100Q: | 3 | |
| Date | 9/19/18 | | | | | | | | | | pH: | 5 | DO: | 1 | Salinity: |

| Location Name Sample ID | Time | Temp (°C) | Salinity (ppt) | Dissolved Oxygen | | pH | Turbidity (NTU) | Waves (0-3) | Wind (0-6) | People | | | TSS | Nutrient duplicate |
|----------------------------|------|--------------|-------------------|------------------|------|------|--------------------|----------------|---------------|--------|-------|------|-----|-----------------------|
| | | | | (mg/L) | (%) | | | | | water | beach | camp | | |
| 505 Front St PFF180919 | 8:11 | 26.9 | 33.7 | 6.02 | 91.2 | 8.05 | 5.73 | 5.08 | 5.12 | 0 | 0 | 0 | 81 | 0 |
| Lindsey Hale PLH180919 | 8:37 | 27.2 | 34.4 | 6.10 | 93.4 | 8.06 | 3.14 | 2.98 | 2.80 | 0 | 2 | 0 | 1 | 0 |
| Lahaina Town PLT180919 | 8:55 | 27.3 | 31.4 | 6.05 | 92.6 | 8.07 | 3.70 | 3.41 | 3.32 | 0 | 3 | 3 | 2 | 0 |
| Olowalu Pier OSF180919 | 9:26 | 27.4 | 34.5 | 6.47 | 99.3 | 8.10 | 1.33 | 1.53 | 1.71 | 0 | 3 | 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 | |
|---|---|
| Most recent tide time (falling or <u>rising</u>) | Low: 5:42 AM Lahaina Station High: 1:33 PM Lahaina Station |
| Moon day (from new) | 10 |
| Cloud cover (0-8) | 3 |
| Rain conditions (last 24 hrs) | 0 |
| Wind direction (Trades/Kona) | NE |
| Streams flowing? (Y/N) | Y |

| | |
|---|--|
| NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed. | |
| PFF stream flowing lightly | |

| TURBIDITY VERIFICATION | | | | |
|------------------------|-------|------|------|------|
| | Blank | Low | Med | High |
| Standard | 0.08 | 6.26 | 55.7 | 604 |
| Pre-sampling | 0.08 | 6.34 | 56.6 | 605 |
| Post-sampling | 0.06 | 6.34 | 56.8 | 605 |

| | # of samples | Relinquished to | Contact |
|-----------|--------------|-----------------|---------|
| Sediment | | | |
| Nutrients | 4 | LHS | D Reed |
| Bacteria | | | |

| | |
|----------------------------|----------------------------|
| Signature (Team Lead): | Printed Name: Dana Reed |
|----------------------------|----------------------------|

WATER QUALITY SAMPLING:

| Team: | Notetaker: | Date: |
|--------------|-------------|---------|
| Polanui - 45 | Maxwell, J. | 9/19/18 |

| Sample No | Location Name | Sample taken? | Storm sample? | Time | Vol (mL) | Protocol notes | Comments |
|---------------|---------------|-------------------------------------|--------------------------|------|----------|--|--------------------------|
| Nutrients | | | | | | | |
| PFF180919-N-1 | 505 Front St | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:11 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| PLH180919-N-1 | Lindsey Hale | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:37 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| PLT180919-N-1 | Lahaina Town | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:55 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OSF180919-N-1 | Olowalu SF | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:26 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| Sediment | | | | | | | |
| PFF180919-S-1 | 505 Front St | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| PLH180919-S-1 | Lindsey Hale | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| PLT180919-S-1 | Lahaina Town | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OSF180919-S-1 | Olowalu SF | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |

Signature (Team Lead):



Printed Name:

Dana Reed

| | | | | | | | | | | | | | | | | | |
|---------|---------|---|---|--|--|--|--|--|--|--|--|--|----------------------|---|----------|---|-------------|
| Team | Olowalu | Samplers (Last Name, 1st Initial) | GRIFFOUTS, M. NUPONEN, R. OTOMO, L. | | | | | | | | | | Meters and Probes ID | | | | |
| Session | 45 | | | | | | | | | | | | HQ40d: | 1 | 2100Q: 3 | | |
| Date | 9/20/18 | | | | | | | | | | | | pH: | 5 | DO: | 1 | Salinity: 3 |

| Location Name Sample ID | Time | Temp (°C) | Salinity (ppt) | Dissolved Oxygen | | pH | Turbidity (NTU) | | | Waves (0-3) | Wind (0-6) | People | | | TSS | Nutrient duplicate |
|-----------------------------|------|--------------|-------------------|------------------|-------|------|--------------------|------|------|----------------|---------------|--------|-------|------|-----|-----------------------|
| | | | | (mg/L) | (%) | | | | | | | water | beach | camp | | |
| Martin Hale OPM180920 | 0720 | 27.0 | 34.3 | 5.28 | 80.6 | 8.03 | 1.44 | 1.40 | 1.73 | 0 | 0 | 0 | 0 | 0 | □ | □ |
| Camp Olowalu OCO180920 | 0733 | 27.3 | 34.4 | 6.02 | 92.4 | 8.11 | 2.15 | 2.20 | 2.15 | 0 | 0 | 0 | 6 | 0 | □ | □ |
| Ukumehame OUB180920 | 0755 | 27.3 | 34.6 | 6.39 | 98.1 | 8.12 | 15.2 | 13.4 | 15.5 | 2+ | 0 | 8 | 1 | 0 | □ | □ |
| Papalaua Beach OPB180920 | 0810 | 27.6 | 34.6 | 6.57 | 101.5 | 8.14 | 6.90 | 6.49 | 6.55 | 2 | 0 | 0 | 2 | 0 | □ | □ |
| Papalaua Pali OPP180920 | 0821 | 27.6 | 34.4 | 6.45 | 99.4 | 8.14 | 4.78 | 5.37 | 4.83 | 2 | 0 | 0 | 2 | 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

| | |
|---|---|
| Most recent tide time (falling or <u>rising</u>) | Low: 6:35 AM Lahaina Station High: 2:02 PM Lahaina Station |
| Moon day (from new) | 11 |
| Cloud cover (0-8) | 0 |
| Rain conditions (last 24 hrs) | 0 |
| Wind direction (Trades/Kona) | 0 |
| Streams flowing? (Y/N) | 0 |

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

TURBIDITY VERIFICATION

| | Blank | Low | Med | High |
|---------------|-------|------|------|------|
| Standard | 0.07 | 6.26 | 55.7 | 604. |
| Pre-sampling | 0.07 | 6.37 | 56.9 | 605. |
| Post-sampling | 0.05 | 6.36 | 56.8 | 605 |

CHAIN OF CUSTODY INFORMATION

| | # of samples | Relinquished to | Contact |
|-----------|--------------|-----------------|---------|
| Sediment | | | |
| Nutrients | 6 | LHS | |
| Bacteria | | | |

Signature (Team Lead):

Printed Name:

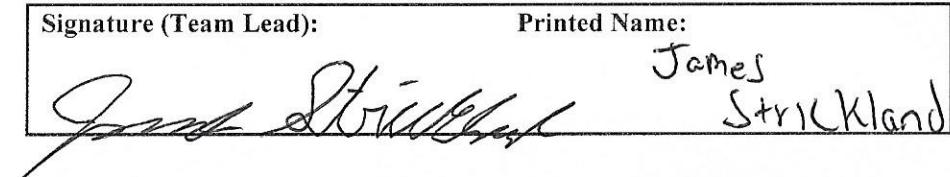


WATER QUALITY SAMPLING:

| Team: | Notetaker: | Date: |
|--------------|------------|---------|
| Olowalu - 45 | GRIFFOL, M | 9/20/18 |

| Sample No | Location Name | Sample taken? | Storm sample? | Time | Vol (mL) | Protocol notes | Comments |
|---------------|----------------|-------------------------------------|--------------------------|------|----------|--|--------------------------|
| Nutrients | | | | | | | |
| OPM180920-N-1 | Martin Hale | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7:20 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OCO180920-N-1 | Camp Olowalu | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7:33 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| oub180920-N-1 | Ukumehame | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7:55 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OPB180920-N-1 | Papalaua Beach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:10 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OPP180920-N-1 | Papalaua Pali | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:21 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| Sediment | | | | | | | |
| OPM180920-S-1 | Martin Hale | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OCO180920-S-1 | Camp Olowalu | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| oub180920-S-1 | Ukumehame | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OPB180920-S-1 | Papalaua Beach | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OPP180920-S-1 | Papalaua Pali | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |

Signature (Team Lead):



Printed Name:

James
Strickland

| | | | | | | | | | | | | | | | |
|---------|---------|---|--|--|--|--|----------|--|--|--|----------------------|--|--|--|--|
| Team | R2RN | Samplers (Last Name, 1st Initial) | Bunker, B Maxwell, C Hehemann, C | | | | | | | | Meters and Probes ID | | | | |
| Session | 45 | | HQ40d: 1 | | | | 2100Q: 3 | | | | | | | | |
| Date | 9/21/18 | | pH: 5 | | | | DO: 1 | | | | Salinity: 3 | | | | |

| Location Name Sample ID | Time | Temp (°C) | Salinity (ppt) | Dissolved Oxygen | | pH | Turbidity (NTU) | | | Waves (0-3) | Wind (0-6) | People | | | TSS | Nutrient duplicate |
|-------------------------------|-------|--------------|-------------------|------------------|-------|------|--------------------|------|------|----------------|---------------|--------|-------|------|-----|-----------------------|
| | | | | (mg/L) | (%) | | | | | | | water | beach | camp | | |
| Honolua Bay RHL180921 | 7:53 | 26.5 | 33.8 | 5.73 | 86.4 | 8.12 | 20.6 | 19.9 | 19.9 | 0 | 0 | 0 | 5 | 0 | □ | □ |
| Oneloa Bay RON180921 | 8:41 | 26.9 | 34.5 | 6.58 | 100.5 | 8.20 | 1.05 | 1.06 | 1.14 | 1 | 2 | 1 | 0 | 0 | □ | □ |
| Kapalua Bay RFS180921 | 9:14 | 27.1 | 32.8 | 6.44 | 97.6 | 8.09 | 5.71 | 3.09 | 2.94 | 0 | 0 | 15 | 35 | 0 | □ | □ |
| Ka'opala Bay RKO180921 | 9:43 | 27.4 | 33.9 | 5.88 | 90.1 | 8.11 | 29.1 | 30.4 | 29.7 | 0 | 0 | 0 | 0 | 0 | □ | □ |
| Kahana Vill RKV180921 | 10:05 | 27.7 | 33.6 | 6.34 | 97.4 | 8.10 | 82.1 | 72.2 | 76.1 | 0 | 1 | 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 | | |
|---|---------------|-----------------|
| Most recent tide time (falling or rising) | Low: 7:16 AM | Lahaina Station |
| | High: 2:27 PM | Lahaina Station |
| Moon day (from new) | | 12 |
| Cloud cover (0-8) | | 0 |
| Rain conditions (last 24 hrs) | 2, | |
| Wind direction (Trades/Kona) | | Trades |
| Streams flowing? (Y/N) | see below | |

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

RHL - stream flow, not strong

RKO - no stream/pipe flow

RKV - brown water way out into ocean

do NOT check stream
manager anecdote - residual largely from
tropical storm

| TURBIDITY VERIFICATION | | | | |
|------------------------|-------|---------------------------|------|------|
| | Blank | Low | Med | High |
| Standard | 0.05 | 6.26 | 55.7 | 604 |
| Pre-sampling | 0.05 | 6.31 | 56.6 | 605 |
| Post-sampling | 0.06 | 6.41 ^{CM} (6.33) | 56.9 | 604 |

CHAIN OF CUSTODY INFORMATION

| | # of samples | Relinquished to | Contact |
|-----------|--------------|-----------------|------------|
| Sediment | 0 | LHS | C. Maxwell |
| Nutrients | 5 | LHS | C. Maxwell |
| Bacteria | 0 | | C. Maxwell |

Signature (Team Lead):

Cathleen Maxwell

Printed Name:

Catherine Maxwell

WATER QUALITY SAMPLING:

| Team: | Samplers: | Last Name, 1 st Initial | Date: |
|-----------|----------------------------------|------------------------------------|---------|
| R2RN - 45 | Banker, B, Maxwell, C, Lehmann C | | 9/21/18 |

| Sample No | Location Name | Sample taken? | Storm sample? | Time | Vol (mL) | Protocol notes | Comments |
|----------------|----------------|-------------------------------------|--------------------------|-------|----------|--|--------------------------|
| Nutrients | | | | | | | |
| RHL180921-N-1 | Honolua Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7:53 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RON180921-N-1 | Oneloa Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:41 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RFS180921-N-1 | Kapalua Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:14 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RKO180921-N-1 | Ka'opala Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:43 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RKV180921-N-1 | Kahana Village | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10:05 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| Sediment - TSS | | | | | | | |
| RHL180921-S-1 | Honolua Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RON180921-S-1 | Oneloa Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RFS180921-S-1 | Kapalua Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RKO180921-S-1 | Ka'opala Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RKV180921-S-1 | Kahana Village | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |

Signature (Team Lead):

Catherine Maxwell

Print name here:

Catherine Maxwell