

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 07-06-26

Site Name: Upstream Site

Time: 0745

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☒ showers (intermittent)	☐ showers (intermittent)	
<u>80</u> % cloud cover	<u>30</u> % cloud cover or less	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☒ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom of stream

Water Color: clear

Estimated Depth: <1"

Visibility: 100% to the bottom

Tide (if applicable): N/A

Notes: None

SPECIES OBSERVATIONS

Fish Kill? ☐ Yes ☒ No # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes: None

Species Observed	# of individuals	Behavior	Notes/Observations
rose-ringed parakeet	2	Flying	Flew over the stream.
red-vented bulbul	2	Foraging	In the vegetation above the stream.
warbling white-eye	2	Loafing	In the vegetation above the stream.
red-vented bulbul	1	Flying	Flew over the stream.
common waxbill	4	Flying	Flew over the stream.
northern cardinal	1	Loafing	In the vegetation above the stream.
zebra dove	4	Loafing	In the vegetation above the stream.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph #
1:

Upstream Site
looking
upstream.



Photograph #
2:

Upstream Site
looking
downstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 07-06-26

Site Name: Discharge Site

Time: 0733

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☒ showers (intermittent)	☐ showers (intermittent)	
<u>50</u> % cloud cover	<u>30</u> % cloud cover or less	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☒ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom of the stream

Water Color: clear

Estimated Depth: 1"

Visibility: 100% to the bottom

Tide (if applicable): N/A

Notes: None.

SPECIES OBSERVATIONS

Fish Kill? ☐ Yes ☒ No # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes: Dogs barking loudly nearby.

Species Observed	# of individuals	Behavior	Notes/Observations
red-vented bulbul	6	Loafing	In the trees above the stream.
zebra dove	1	Loafing	In the trees above the stream.
warbling white-eye	2	Loafing	In the trees above the stream.
rose-ringed parakeet	1	Flying	Flew over the stream.

PHOTOGRAPHS:

Halawa Stream Monitoring Data Sheet



Photograph #
1:
Discharge Site
looking
upstream.



Photograph #
2:
Discharge Site
looking
downstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 07/06/26

Site Name: Downstream Site 1

Time: 0708

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☒ showers (intermittent)	☐ showers (intermittent)	
<u>80</u> % cloud cover	<u>30</u> % cloud cover or less	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☒ wet ☐ standing water ☒ flowing water ☒ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom

Water Color: clear

Estimated Depth: 1"-2"

Visibility: 100% to the bottom

Tide (if applicable): N/A

Notes: None.

SPECIES OBSERVATIONS

Fish Kill? ☐ Yes ☒ No # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes: None.

Species Observed	# of individuals	Behavior	Notes/Observations
common waxbill	2	Loafing	In the vegetation above the stream.
white tern	2	Flying	Flew over the stream.
red-vented bulbul	2	Loafing	In the vegetation above the stream.
zebra dove	1	Loafing	In the vegetation above the stream.

PHOTOGRAPHS:

Halawa Stream Monitoring Data Sheet



Photograph #
1:
Downstream
Site 1 looking
upstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 07/06/26

Site Name: Downstream Site # 2

Time: 0700

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☒ showers (intermittent)	☐ showers (intermittent)	
<u>50%</u> cloud cover	<u>30%</u> cloud cover or less	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☒ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at the bottom

Water Color: clear

Estimated Depth: 1"-1ft

Visibility: 100% to the bottom

Tide (if applicable): N/A

Notes: The buildup of rocks has lowered the water level.

SPECIES OBSERVATIONS

Fish Kill? Yes ☒ No ☐ # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes: None

Species Observed	# of individuals	Behavior	Notes/Observations
black-crowned night heron	3	Loafing	In the stream.
red-vented bulbul	2	Flying	Flew over the stream.
mosquito fish	~50	Swimming	In the stream.
zebra dove	1	Loafing	In the dry part of the stream bed.
koloa/mallard hybrid	1	Swimming	In the stream.
koloa/mallard hybrid	1	Flying	Flew over the stream.
red-vented bulbul	1	Loafing	In the vegetation above the stream.
rose-ringed parakeet	1	Flying	Flew over the stream.

PHOTOGRAPHS:

Halawa Stream Monitoring Data Sheet



Photograph #
1:
Downstream
Site # 2.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 07/06/26 Site Name: Estuary Site 1 Time: 0638

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☐ showers (intermittent)	☐ showers (intermittent)	
<u>30</u> % cloud cover	<u>30</u> % cloud cover or less	
☒ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☒ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: Cloudy, sediment mixed in water.

Water Color: dark green

Estimated Depth: 6'

Visibility: 1'

Tide (if applicable): 0.8 ft

Notes: None.

SPECIES OBSERVATIONS

Fish Kill? ☐ Yes ☒ No # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes: None.

Species Observed	# of individuals	Behavior	Notes/Observations
zebra dove	2	Loafing	In vegetation above the stream.
rose-ringed parakeet	8	Flying	Flew over the stream.
white tern	5	Flying	Flew over the stream.
red-vented bulbul	7	Loafing	In vegetation above the stream.
common myna	3	Flying	Flew over the stream.
jungle fowl	2	Loafing	In vegetation above the stream.
warbling white-eye	1	Loafing	In vegetation above the stream.
zebra dove	1	Flying	Flew over the stream.
tilapia	5	Swimming	In the stream.
northern cardinal	1	Loafing	In vegetation above the stream.

PHOTOGRAPHS:

Halawa Stream Monitoring Data Sheet



Photograph #
1:
Estuary Site 1
looking
upstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 07/06/26 Site Name: Estuary Site 2 Time: 0648

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☐ showers (intermittent)	☐ showers (intermittent)	
<u>30</u> % cloud cover	<u>30</u> % cloud cover or less	
☒ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☒ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at the bottom.

Water Color: clear

Estimated Depth: 2'

Visibility: 100% to bottom

Tide (if applicable): 0.9 ft

Notes: None.

SPECIES OBSERVATIONS

Fish Kill? ☐ Yes ☒ No # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes: None.

Species Observed	# of individuals	Behavior	Notes/Observations
red-vented bulbul	1	Flying	Flew over the stream.
common waxbill	4	Loafing	In the vegetation above the stream.
common myna	5	Flying	Flew over the stream.
unknown fish sp.	~10	Swimming	In the stream. Splashing observed.
cattle egret	1	Flying	Flew over the stream.
rose-ringed parakeet	1	Flying	Flew over the stream.
spotted dove	1	Loafing	On wire above the stream.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph #
1:

Estuary Site 2
looking
upstream.



Photograph #
2:

Estuary Site 2
looking
downstream.

WATERBIRD SURVEY DATASHEET

WETLAND CONDITION CODES				WEATHER CODES			
Water Level (WL) 0 = dry 1 = lower than normal 2 = normal 3 = higher than normal	Human Impact (HI) 0 = indirect (little garbage, few people) 1 = moderate 2 = heavy (many people present; e.g., wading, boating, fishing, etc)	Rainfall (RF) 0 = no rain 1 = mist or fog 2 = drizzle 3 = light rain 4 = heavy rain 5 = snow or hail	Wind 0 = no wind, < 1 mph 1 = smoke drifts, 1-3 mph 2 = wind felt on face, 4-7 mph 3 = leaves and twigs rustle, 8-12 mph 4 = dust raises, branches stir, 13-18 mph 5 = small trees sway, >19 mph				
Vegetation Cover (VC) 0 = open water (<25% veg) 1 = 26-50% veg cover 2 = 51-75% veg cover 3 = >75% cover	Shoreline Condition of Tidal Wetlands (SC) 0 = water at high tide mark N/A=not applicable 1 = water 25 ft from high tide mark 2 = water 50 ft from high tide mark 3 = water >50 ft from high tide mark	Cloud Cover (CC) = Estimate to the nearest 10%					

Date 07/06/26

REMINDERS: If site is not accessible, include wetland name and write 'no access'

Observers [REDACTED]

If no birds observed, fill out top portion and write 'no birds'

Island O'ahu

KEEP A COPY FOR YOUR RECORDS

Subadult includes juveniles and chicks

Wetland Name	US				DC				DS 1				DS 2			
	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC
Condition	2	0	0	N/A	2	0	0	N/A	2	0	0	N/A	1	0	0	N/A
Weather	CC	RF	Wind		CC	RF	Wind		CC	RF	Wind		CC	RF	Wind	
	80	2	3		50	1	3		80	2	3		50	2	3	
Time	Start		Stop		Start		Stop		Start		Stop		Start		Stop	
	0745		0750		0733		0738		0708		0713		0700		0705	
COOT adult																
subadult																
GALLINULE/MOORHEN adult																
subadult																
STILT adult																
subadult																
KOLOA adult																
subadult																
Koloa/Mallard Hybrid													2 (adult/swimming & flying)			
Mallard (domestic/feral)																
Other Domestic Duck																
Black-cr. Night Heron													3 (adult/loafing)			
Cattle Egret																
Pacific Golden Plover																
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White tern									2 (adult/flying)							
Comments	No water/shorebirds observed.				No water/shorebirds observed.											

WATERBIRD SURVEY DATASHEET

WETLAND CONDITION CODES		WEATHER CODES	
Water Level (WL) 0 = dry 1 = lower than normal 2 = normal 3 = higher than normal	Human Impact (HI) 0 = indirect (little garbage, few people) 1 = moderate 2 = heavy (many people present; e.g., wading, boating, fishing, etc)	Rainfall (RF) 0 = no rain 1 = mist or fog 2 = drizzle 3 = light rain 4 = heavy rain 5 = snow or hail	Wind 0 = no wind, < 1 mph 1 = smoke drifts, 1-3 mph 2 = wind felt on face, 4-7 mph 3 = leaves and twigs rustle, 8-12 mph 4 = dust raises, branches stir, 13-18 mph 5 = small trees sway, >19 mph
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Date 07/06/26

Island O'ahu

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KEEP A COPY FOR YOUR RECORDS

Subadult includes juveniles and chicks

Observers [REDACTED]

Wetland Name	ES 1				ES 2											
Condition	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC
	2	0	0	0	2	0	0	0								
Weather	CC	RF	Wind		CC	RF	Wind		CC	RF	Wind		CC	RF	Wind	
	30	0	3		30	0	3									
Time	Start		Stop		Start		Stop		Start		Stop		Start		Stop	
	0638		0643		0648		0653									
COOT adult																
subadult																
GALLINULE/MOORHEN adult																
subadult																
STILT adult																
subadult																
KOLOA adult																
subadult																
Koloa/Mallard Hybrid																
Mallard (domestic/feral)																
Other Domestic Duck																
Black-cr. Night Heron																
Cattle Egret					1 (adult/flying)											
Pacific Golden Plover																
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White Tern	5 (adult/flying)															
Comments																

Rev. Aug 2017