

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 6/1/2026 Site Name: Upstream Site Time: 1120-1125

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>20</u> % cloud cover	<u>50</u> % cloud cover or less	
<input type="checkbox"/> clear/sunny	<input type="checkbox"/> 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 in

Visibility: 100% to bottom

Tide (if applicable): N/A

Notes: Active flow above discharge location.

SPECIES OBSERVATIONS

Fish Kill? Yes No # Dead Fish 0

Fish Breathing Stress/Gulping None Yes

Fish Abnormal Behavior None Yes

Notes: Hybrid Mallard loafing in stream

Species Observed	# of individuals	Behavior	Notes/Observations
Red-vented bulbul	1	Foraging	Foraging in the vegetation next to the stream
Common Waxbill	2	Flying	Flying over the stream
Red-vented bulbul	1	Flying	Flying over the stream
Warbling white-eye	1	Flying	Flying over the stream
House Sparrow	1	Flying	Flying over the stream
Rock Pigeon	1	Flying	Flying over the stream
Common myna	2	Flying	Flying over the stream
Hybrid Mallard	2	Loafing	Loafing in the stream adjacent to active flow
Zebra dove	1	Loafing	Loafing in the stream adjacent to active flow

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS:



Photograph # 1:
Upstream Site
looking upstream.

6/1/2026



Photograph # 2:
Upstream Site
looking
downstream.

6/1/2026

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 6/1/2026 Site Name: Discharge Site Time: 1106-1111

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>20 %</u> cloud cover	<u>50 %</u> cloud cover or less	
<input type="checkbox"/> clear/sunny	<input type="checkbox"/> 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: 2-4 in

Visibility: 100 % to bottom

Tide (if applicable): N/A

Notes: Active discharge; active flow above discharge site

SPECIES OBSERVATIONS

Fish Kill? Yes No # Dead Fish 0

Fish Breathing Stress/Gulping None Yes

Fish Abnormal Behavior None Yes

Notes: N/A

Species Observed	# of individuals	Behavior	Notes/Observations
Red Crested Cardinal	6	Forage	Foraging in the stream
Common myna	5	Loaf	Loafing in vegetation next to stream
Common myna	6	Bathing	Bathing in vegetation next to stream
Common Waxbill	1	Forage	Foraging in the stream

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph # 1:
Discharge Site
looking upstream.

6/1/2026



Photograph # 2:
Discharge Site
looking
downstream.

6/1/2026

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 6/1/2026 Site Name: Downstream Site # 1 Time: 1030-1045

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>30</u> % cloud cover	<u>50</u> % cloud cover or less	
<input type="checkbox"/> clear/sunny	<input type="checkbox"/> 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: 2-4 in

Visibility: 100% to bottom

Tide (if applicable): N/A

Notes: Active stream flow

SPECIES OBSERVATIONS

Fish Kill? Yes No # Dead Fish 0

Fish Breathing Stress/Gulping None Yes

Fish Abnormal Behavior None Yes

Notes: N/A

Species Observed	# of individuals	Behavior	Notes/Observations
Black-crowned night heron	2	Foraging	Foraging in the stream
Red crested cardinal	1	Foraging	Foraging in the vegetation next to the stream
Spotted dove	1	Foraging	Foraging in the vegetation next to the stream
Common waxbill	2	Foraging	Foraging in the vegetation next to the stream

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



6/1/2026

Photograph # 1:
Downstream Site #
1.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 6/1/2026 Site Name: Downstream Site # 2 Time: 1019-1024

WEATHER CONDITIONS

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

WATER QUALITY

Water level dry wet standing water flowing water sheen visible

Observed Turbidity/Sedimentation: Clear, suspended sediment mixed in

Water Color: clear

Estimated Depth: 6 in – 3ft

Visibility: 6"

Tide (if applicable): 0.32 ft

Notes: Elevated trash presence; rock islets created new foraging habitat

SPECIES OBSERVATIONS

Fish Kill? Yes No # Dead Fish 0

Fish Breathing Stress/Gulping None Yes

Fish Abnormal Behavior None Yes

Notes: N/A

Species Observed	# of individuals	Behavior	Notes/Observations
Black-crowned night heron	6	Forage	Foraging in the stream
Common myna	1	Calling	Calling from the vegetation next to the stream
Spotted dove	4	Flying	Flying over the stream.
Warbling white-eye	3	Flying	Flying over the stream
Black-crowned night heron	2	Flying	Flying over the stream.
Red-vented bulbil	3	Flying	Flying over the stream.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPH



Photograph # 1:
Downstream Site #
2.

6/1/2026

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 6/1/2026 Site Name: Estuary Site # 1 Time: 0926-0932

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>20</u> % cloud cover	<u>50</u> % cloud cover or less	
<input type="checkbox"/> clear/sunny	<input type="checkbox"/> clear/sunny	

WATER QUALITY

Water level dry wet standing water flowing water sheen visible

Observed Turbidity/Sedimentation: cloudy, light sediment suspended in water

Water Color: Green

Estimated Depth: ~5 ft

Visibility: 2-3 ft

Tide (if applicable): 0.27ft

Notes: N/A

SPECIES OBSERVATIONS

Fish Kill? Yes No # Dead Fish 0

Fish Breathing Stress/Gulping None Yes

Fish Abnormal Behavior None Yes

Notes: Traffic noise – difficult to hear birds calling from the vegetation

Species Observed	# of individuals	Behavior	Notes/Observations
Spotted dove	4	Flying	Flying over the stream.
Common myna	3	Flying	Flying over the stream.
Hybrid Mallard	4	Flying	Flying over the stream.
Red-vented bulbul	4	Loafing	Loafing in the stream adjacent to active flow
White tern	2	Flying	Flying over the stream.
House sparrow	3	Flying	Flying over the stream.
Warbling white-eye	1	Flying	Flying over the stream

Halawa Stream Monitoring Data Sheet

PHOTOGRAPH



Photograph # 1:
Estuary Site # 1
looking upstream.

6/1/2026

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 6/1/2026 Site Name: Estuary Site # 2 Time: 1003-1008

WEATHER CONDITIONS

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

WATER QUALITY

Water level dry wet standing water flowing water sheen visible

Observed Turbidity/Sedimentation: Cloudy, sediment mixed in water

Water Color: Brown

Estimated Depth: +6 ft

Visibility: 0 in

Tide (if applicable): 0.3ft

Notes: Trash/flotsam presence in stream; tide appears low. Wave action from tour groups moving up stream

SPECIES OBSERVATIONS

Fish Kill? Yes No # Dead Fish 0

Fish Breathing Stress/Gulping None Yes

Fish Abnormal Behavior None Yes

Notes: N/A

Species Observed	# of individuals	Behavior	Notes/Observations
Red-vented bulbul	5	Flying	Flying over the stream.
Common myna	2	Flying	Flying over the stream.
House sparrow	3	Flying	Flying over the stream.
Spotted dove	1	Flying	Flying over the stream.
Red-vented bulbul	2	Loafing	Loafing in the vegetation next to the stream
White tern	1	Flying	Flying over the stream.
Warbling white-eye	2	Flying	Flying over the stream

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



6/1/2026

Estuary Site # 2.
Looking upstream
Photograph # 1:



6/1/202

Looking
downstream
Photograph # 2

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%	

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

Observers

Date 6/01/2026

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

KEEP A COPY FOR YOUR RECORDS

Island O'ahu

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	3	1	0	NA	3	1	3	NA	3	0	0	NA	2	3	1	N/A
Weather	CC	RF	Wind		CC	RF	Wind		CC	RF	Wind		CC	RF	Wind	
	20	0	5		20	0	5		30	0	5		30	0	5	
Time	Start		Stop		Start		Stop		Start		Stop		Start		Stop	
	1120		1125		1106		111		1030		1035		1019		1024	
COOT	adult															
	subadult															
GALLINULE/MOORHEN	adult															
	subadult															
STILT	adult															
	subadult															
KOLOA	adult															
	subadult															
Koloa/Mallard Hybrid	2 (adult/ loaf)															
Mallard (domestic/feral)																
Other Domestic Duck																
Black-cr. Night Heron									2 (adult / forage)				2 (adult /fly) 6 (adult / forage)			
Cattle Egret																
Pacific Golden Plover																
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White fairy tern																
Comments					no waterbirds/shorebirds.											

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 6/1/2026 **Observers** XXXXXXXXXX
If site it not accessible, include wetland name and write 'no access'
If no birds observed, fill out top portion and write 'no birds'
KEEP A COPY FOR YOUR RECORDS
Subadult includes juveniles and chicks

Island O'ahu

Wetland Name	ES 1				ES 2											
	WL	VC	HI	SC	WL	VC	HI	SC								
Condition	1	2	3	0	1	0	3	0								
Weather	CC	RF	Wind		CC	RF	Wind									
	20	0	5		30	0	5									
Time	Start		Stop		Start		Stop									
	0927		0932		1003		1008									
COOT adult																
subadult																
GALLINULE/MOORHEN adult																
subadult																
STILT adult																
subadult																
KOLOA adult																
subadult																
Koloa/Mallard Hybrid	4 (Adult/ Forage)															
Mallard (domestic/feral)																
Other Domestic Duck																
Black-cr. Night Heron																
Cattle Egret																
Pacific Golden Plover																
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White Tern	1(Adult/Fly)				1(Adult/Fly)											
Comments																