Observer/s:		<u> </u>			
Date: <u>09-16-24</u> Site	e Name: <u>Upstream Site</u>	Time: <u>0930</u>			
WEATHER CONDITIONS	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)	$\square$ rain (steady rain)				
☐ showers (intermittent)	$\square$ showers (intermittent)				
<u>60</u> % cloud cover	60 % cloud cover or less				
⊠ clear/sunny	⊠ clear/sunny				
WATER QUALITY  Water level					
Notes:					
SPECIES OBSERVATIONS  Fish Kill? ☐ Yes ☒ No # Dead Fish O  Fish Breathing Stress/Gulping ☒ None ☐ Yes  Fish Abnormal Behavior ☒ None ☐ Yes					

Notes: Majority of stream is dry; there is a small trickle of water further downstream.

Species	# of	Behavior	Notes/Observations
Observed	individuals		
jungle fowl	3	Foraging	Foraging in the streambed.
java sparrow	8	Loafing	In the vegetation above the stream.
zebra dove	1	Loafing	In the vegetation above the stream.
white-rumped	1	Loafing	In the vegetation above the stream.
shama thrush			

### **PHOTOGRAPHS**



Photograph # 1:

Upstream Site looking upstream.



Photograph # 2:

Upstream Site looking downstream.

Observer/s:			
Date: <u>09-16-24</u>	Si	te Name: <u>Discharg</u>	ge Site Time: 0948
WEATHER CONDIT	IONS		
NOW		Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy r	ain)	storm (heavy rain	n) ☐ yes ⊠ no
☐ rain (steady rai	in)	☐ rain (steady rain)	)
☐ showers (inter	mittent)	☐ showers (intermi	ittent)
20_% cloud cove	r	60 % cloud cover or	less
		⊠ clear/sunny	
Estimated Depth: < Visibility: 100% to t Tide (if applicable): Notes: Release of v  SPECIES OBSERVAT	the bottom  N/A  vater happenin	g, loud generator noise	e.
Fish Kill?  Yes		ad Fish <u>0</u>	
Fish Breathing Stre			
Fish Abnormal Beh		None  Yes	
Notes:			
Species Observed	# of individuals	Behavior	Notes/Observations
pacific golden plover	2	Foraging	Foraging in the streambed.

Foraging

Loafing

Flying

red-crested

cardinal common myna

red-vented

bulbul

1

2

Foraging in the streambed.

In the trees above the stream.

Flew over the stream.

### **PHOTOGRAPHS**



Photograph # 1:

Discharge Site looking upstream.



Photograph # 2:

Discharge Site looking downstream.

Observer/s:		<u></u>				
Date: <u>09-16-24</u> Sit	e Name: <u>Downstream S</u>	ite 1 Time: <u>0741</u>				
WEATHER CONDITIONS						
NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?				
☐ storm (heavy rain)	$\square$ storm (heavy rain)	☐ yes ⊠ no				
☐ rain (steady rain)	$\square$ rain (steady rain)					
☐ showers (intermittent)	$\square$ showers (intermittent)					
<u>70</u> % cloud cover	60 % 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"  Visibility: 100% to the bottom  Tide (if applicable): N/A						
Notes: N/A						
SPECIES OBSERVATIONS  Fish Kill? ☐ Yes ☒ No # Dead Fish O  Fish Breathing Stress/Gulping ☒ None ☐ Yes  Fish Abnormal Behavior ☒ None ☐ Yes  Notes:						

Species Observed	# of individuals	Behavior	Notes/Observations
hawaiian stilt		Foraging	Foreging in the streem
nawanan Stiit	2	Foraging	Foraging in the stream.
pacific golden plover	1	Foraging	Foraging in the stream.
koloa/mallard hybrid	2	Foraging	Foraging in the stream.
mosquito fish	~100	Loafing	Swimming in the stream.
Black-crown night heron	1	Flying	Flew over the stream.
Common waxbill	2	Flying	Flew over the stream.

### **PHOTOGRAPHS**



Photograph # 1:

Downstream Site 1 looking upstream.

Observer/s:				
Date: <u>09-16-24</u> Sit	e Name: <u>Downstream Site 2</u>	Time: <u>0730</u>		
WEATHER CONDITIONS				
NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?		
☐ storm (heavy rain)	$\square$ storm (heavy rain)	☐ yes ⊠ no		
☐ rain (steady rain)	$\square$ rain (steady rain)			
☐ showers (intermittent)	☐ showers (intermittent)			
_70_% cloud cover	60 % cloud cover or less			
⊠ clear/sunny	⊠ clear/sunny			
WATER QUALITY  Water level □ dry ☑ wet □ standing water ☑ flowing water □ sheen visible  Observed Turbidity/Sedimentation: slightly clear, lighter sediment mixed in water.  Water Color: light green  Estimated Depth:1"- 2'  Visibility: ~1'  Tide (if applicable): N/A				
Notes: N/A  SPECIES OBSERVATIONS  Fish Kill? □ Yes ☒ No # Dead Fish _ 0  Fish Breathing Stress/Gulping ☒ None □ Yes  Fish Abnormal Behavior ☒ None □ Yes  Notes: N/A				
notes: N/A				

# of individuals	Behavior	Notes/Observations
1	Foraging	Foraging in the dry part of the streambed.
~200	Loafing	Swimming in the stream.
5	Foraging	Foraging in the dry part of the streambed.
7	Flying	Flew over the stream.
1	Foraging	Foraging in the dry part of the streambed.
3	Flying	Flew over the stream.
	individuals  1  ~200  5  7  1	individuals  1 Foraging  ~200 Loafing  5 Foraging  7 Flying  1 Foraging

red vented	1	Flying	Flew over the stream.
bulbul			
mosquito fish	~100	Loafing	Swimming in the stream.
black-crown	1	Loafing	Perched in tree above the stream.
night heron			
red-crested	1	Foraging	Foraging in brush along the stream.
cardinal			

### **PHOTOGRAPHS**



Photograph # 1:

Downstream Site 2 looking downstream.

Observer/s:		_				
Date: <u>09-16-24</u> Site	e Name: Estuary Site 1	Time: <u>0705</u>				
WEATHER CONDITIONS	WEATHER CONDITIONS					
NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?				
☐ storm (heavy rain)	$\square$ storm (heavy rain)	☐ yes ⊠ no				
☐ rain (steady rain)	$\square$ rain (steady rain)					
☐ showers (intermittent)	$\square$ showers (intermittent)					
<u>60</u> % cloud cover	60 % 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: 6"  Tide (if applicable): 0.2 ft						
Notes: Loud vehicle traffic and construction noise nearby.						
Notes: Loud vehicle traffic and construction noise nearby.  SPECIES OBSERVATIONS  Fish Kill? ☐ Yes ☒ No # Dead Fish O  Fish Breathing Stress/Gulping ☒ None ☐ Yes  Fish Abnormal Behavior ☒ None ☐ Yes  Notes: N/A						

Species	# of	Behavior	Notes/Observations
Observed	individuals	Demavio:	Troces, observations
tilapia	~25	Loafing	Swimming in the stream.
red-vented bulbul	3	Flying	Flew over the stream.
white tern	7	Flying	Flew over the stream.
common mynah	1	Loafing	Loafing in the vegetation next to the stream.
spotted dove	1	Loafing	Loafing in the vegetation next to the stream.
ring necked parakeet	4	Flying	Flew over the stream.
spotted dove	1	Flying	Flew over the stream.

# **PHOTOGRAPHS**



Photograph # 1:

Estuary Site 1 looking upstream.

Observer/s:		<u> </u>		
Date: <u>09-16-24</u> Sit	e Name: <u>Estuary Site 2</u>	Time: <u>0715</u>		
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		
$\square$ rain (steady rain)	$\square$ rain (steady rain)			
☐ showers (intermittent)	$\square$ showers (intermittent)			
<u>60</u> % cloud cover	60 % cloud cover or less			
⊠ clear/sunny	□ clear/sunny			
Observed Turbidity/Sedimentation Water Color: dark green Estimated Depth: 1'-3' Visibility: 4" Tide (if applicable): 0.2 ft	standing water ⊠ flowing water : slightly cloudy, lighter sediment r			
Notes: N/A				
Fish Breathing Stress/Gulping ⊠ N	d Fish <u>0</u> lone □ Yes lone □ Yes			

Notes: Glare form the sun made it difficult to see any fish.

Species	# of	Behavior	Notes/Observations
Observed	individuals		
common myna	3	Flying	Flew over the stream.
common house	2	Flying	Flew over the stream.
sparrow			
tilapia	5	Loafing	Swimming in the stream.
java sparrow	1	Flying	Flew over the stream.
common	6	Flying	Flew over the stream.
waxbill			
rock dove	1	Flying	Flew over the stream.
ring-neck	16	Flying	Flew over the stream.
parakeet			

### **PHOTOGRAPHS**



Photograph # 1:

Estuary Site 2 looking upstream.



Photograph # 2:

Estuary Site 2 looking downstream.

#### WATERBIRD SURVEY DATASHEET

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

Date	09-16-24	

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

Observers

Date	09-1	6-24

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

#### KEEP A COPY FOR YOUR RECORDS

<u>Island O'ahu</u> Subadult includes juveniles and chicks

Wetland Name		US	3			Г	C			Г	OS 1	DS 2				
Condition	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC
Condition	CC 1	0 <b>RF</b>	0 Wind	NA	2 CC	0 <b>RF</b>	1 Wind	NA	2 CC	1 RF	0 Wind	NA	2 CC	1 RF	0 Wind	N/A
Weather	60	0	1		20	0	2		70	0	2		70	0	2	
Time		tart 930	S1 09	op 35	St 094	art 8	St 099	op 53		art '41	St 07-	op 46	St 073	art 0	St 073	ор 35
COOT adult																
subadult																
GALLINULE/MOORHEN adult																
subadult																
STILT adult										2 (adult/	foraging)					
subadult																
KOLOA adult																
subadult																
Koloa/Mallard Hybrid										2 (adult/	foraging)					
Mallard (domestic/feral)																
Other Domestic Duck																
Black-cr. Night Heron										1 (adu	lt/flying)		2 (ad	lult/huntir	ng and loa	afing)
Cattle Egret																
Pacific Golden Plover					2 (adult/foraging)			1 (adult/foraging)			1 (adult/foraging)					
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
Comments																
	no wa	aterbirds/s	horebirds	;,												
															Rev	Aug 20

#### WATERBIRD SURVEY DATASHEET

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

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

**Observers** 

Date 09-16-24

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

**KEEP A COPY FOR YOUR RECORDS** 

<u>Island O'ahu</u> Subadult includes juveniles and chicks

M. H I N																
Wetland Name			S 1				S 2									
Condition	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC
Weather	CC CC	0 RF	0 Wind	0	CC CC	0 RF	0 Wind	0	CC	RF	Wind		CC	RF	Wind	
weather	60 St	60 0 1 Start Stop				1 <b>S</b> t	on	S+	art	S+	ор	C+	art	Stop		
Time	0705		071		Start 0715			Stop 0720		art	30	ОР	Start		30	ОР
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																
Pacific Golden Plover																
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White Tern		7 (adu	lt/flying)													
Comments																
					no	waterbird	ls/shorebii	rds								
															De:-	Aug 2017
					<u> </u>								<u> </u>		Kev.	Aug 2017