

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leibhu3Hilei

HSA CODE: - -

TEMPERATURE: (°C)

NAME: Hillawe

ELEVATION: (ft.)

DATE: 11 115 12005
Mo. Day Yr.

TIME: 9:00
(START)

AM
PM

TO 9:05

(STOP)

AM
PM

SUBSTRATE TYPE (%):

SEDIMENT

SAND 25%

GRAVEL

COBBLE 25%

BOULDERS 50%

BEDROCK

DETRITUS

HABITAT TYPE:

SURVEY AREA (l" x w" x h"):

POOL SIDE POOL

PLUNGE POOL

RUN

RIFFLE

CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

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no caddis flies

COMMENTS:

Random No.: ,

Site No.: 4

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leiohua Miller

HSA CODE: _____ - _____ - _____ . _____ TEMPERATURE: _____ (°C)

NAME: Hilawe ELEVATION: _____ (ft.)

DATE: 11 15 2005 TIME: 9:10 AM TO 9:15 AM
Mo. Day Yr. (START) PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT 25% SAND _____ GRAVEL 10%

COBBLE 50% BOULDERS _____ BEDROCK _____

DETRITUS 15%

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL PLUNGE POOL RUN RIFFLE CASCADE

NO WATER DIRTY WATER

SPP: _____ SIZE _____ ♂ _____ ♀ _____ ?

no caddis flies

COMMENTS:

Random No.: _____ , _____

Site No.: 5

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Hill, J. L. & G. K.

HSA CODE: _____ - _____ - _____

TEMPERATURE: _____ (°C)

NAME: Hi'ikawe

ELEVATION: _____ (ft.)

DATE: 11 / 15 / 2005
Mo. Day Yr.

TIME: 9:15

AM

TO 9:20

AM

Mo. Day

r.

(START)

PM

(STOP)

PM

SUBSTRATE TYPE (%):

SEDIMENT _____

SAND 30%

GRAVEL _____

COBBLE 10%

BOULDERS 60%

BEDROCK _____

DETRITUS

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL

PLUNGE POOL RUN RIFFLE CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

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No caddis flies

COMMENTS:

Random No.: _____, _____

Site No.: 6

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leichu & Phil

HSA CODE: _____

TEMPERATURE: _____ (°C)

NAME: Hillawe

ELEVATION: _____ (ft.)

DATE: 11 / 15 / 2005
Mo. Day Yr.

TIME: 9:22
(START)

AM
PM

TO

9:27

(STOP)

AM
PM

SUBSTRATE TYPE (%):

SEDIMENT _____

SAND _____

GRAVEL 50%

COBBLE _____

BOULDERS 50%

BEDROCK _____

DETRITUS _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL

PLUNGE POOL

RUN

RIFFLE

CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

♀

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No Caddis flies

COMMENTS:

Random No.: _____

Site No.: 7

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Lei'ohu Hili'e

HSA CODE: - -

TEMPERATURE: (°C)

NAME: Hiliawe

ELEVATION: (ft.)

DATE: 11 15 2005
Mo. Day Yr.

TIME: 9:32
(START)

AM
PM

TO 9:37
(STOP)

AM
PM

SUBSTRATE TYPE (%):

SEDIMENT

SAND 15%

GRAVEL 15%

COBBLE 70%

BOULDERS

BEDROCK

DETRITUS

HABITAT TYPE:

SURVEY AREA (l" x w" x h"):

POOL SIDE POOL

PLUNGE POOL

RUN

RIFFLE

CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

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NO caddis flies

COMMENTS:

Random No.: ,

Site No.: 8

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leigha Hilder

HSA CODE: - - -

TEMPERATURE: (°C)

NAME: Hi'ilawe

ELEVATION: (ft.)

DATE: 11 / 15 / 2005
Mo. Day Yr.

TIME: 9:40
(START)

AM
PM

TO 9:45
(STOP)

AM
PM

SUBSTRATE TYPE (%):

SEDIMENT SAND GRAVEL

COBBLE BOULDERS 100% BEDROCK

DETRITUS

HABITAT TYPE:

SURVEY AREA (l" x w" x h"):

POOL SIDE POOL PLUNGE POOL RUN RIFFLE CASCADE

NO WATER DIRTY WATER

SPP: SIZE ♂ ♀ ?

No caddis flies

COMMENTS:

Random No.: ,

Site No.: 9

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leitch Hill

HSA CODE: _____

TEMPERATURE: _____ (°C)

NAME: Hill

ELEVATION: _____ (ft.)

DATE: 11 15 2005
Mo. Day Yr.

TIME: 9:48
(START)

AM TO 9:58 AM
PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT _____

SAND _____

GRAVEL 50%

COBBLE _____

BOULDERS 25%

BEDROCK 25%

DETRITUS _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL

PLUNGE POOL RUN

RIFFLE CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

♀

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10 caddis flies

COMMENTS:

Random No.: _____

Site No.: 10

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM OBSERVER: Leah Hiler
HSA CODE: - - - - - TEMPERATURE: _____ (°C)
NAME: Hillowe ELEVATION: _____ (ft.)
DATE: 11 / 15 / 2005 TIME: 10:00 AM TO 10:05 AM
Mo. Day Yr. (START) PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT _____ SAND _____ GRAVEL 25%
COBBLE _____ BOULDERS 50% BEDROCK 25%
DETritus _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL PLUNGE POOL RUN RIFFLE CASCADE
NO WATER DIRTY WATER

SPP: SIZE ♂ ♀ ?

4 caddis flies

COMMENTS:

Random No.: _____ , _____

Site No.: 11

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leibholz/Hillel

HSA CODE: - - -

TEMPERATURE: (°C)

NAME: Willawe

ELEVATION: (ft.)

DATE: 11 / 15 / 2005
Mo. Day Yr.

TIME: 10:40
(START)

AM
PM

TO 10:45
(STOP)

AM
PM

SUBSTRATE TYPE (%):

SEDIMENT

SAND

GRAVEL 50%

COBBLE

BOULDERS 50%

BEDROCK

DETRITUS

HABITAT TYPE:

SURVEY AREA (l" x w" x h"):

POOL SIDE POOL

PLUNGE POOL

RUN

RIFFLE

CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

♀

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4 caddis flies

COMMENTS:

Random No.: ,

Site No.: 12

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leah Hille

HSA CODE: _____ - _____ - _____ . _____ TEMPERATURE: _____ (°C)

NAME: Hillawe ELEVATION: _____ (ft.)

DATE: 11 15 2005 TIME: 10:46 AM TO 10:51 AM
Mo. Day Yr. (START) PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT _____ SAND 30% GRAVEL 30%
COBBLE _____ BOULDERS 40% BEDROCK _____
DETritus _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL PLUNGE POOL RUN RIFFLE CASCADE
NO WATER DIRTY WATER

SPP: _____ SIZE _____ ♂ _____ ♀ _____ ?

4 caddis flies

COMMENTS:

Random No.: _____ , _____

Site No.: 13

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leibah Hilale

HSA CODE: _____

TEMPERATURE: _____ (°C)

NAME: Hilale

ELEVATION: _____ (ft.)

DATE: 11 15 2005
Mo. Day Yr.

TIME: 10:53
(START)

AM
PM

TO 10:59
(STOP)

AM
PM

SUBSTRATE TYPE (%):

SEDIMENT _____

SAND _____

GRAVEL _____

COBBLE _____

BOULDERS 100%

BEDROCK _____

DETRITUS _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL ~~SIDE POOL~~

PLUNGE POOL

RUN

RIFFLE

CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

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3 caddis flies

COMMENTS:

Random No.: _____, _____

Site No.: 14

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leah Hillel

HSA CODE: _____

TEMPERATURE: _____ (°C)

NAME: Hillel

ELEVATION: _____ (ft.)

DATE: 11 15 2005
Mo. Day Yr.

TIME: 11:03
(START)

AM TO 11:08 AM
PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT _____ SAND _____ GRAVEL _____

COBBLE _____ BOULDERS 99% BEDROCK _____

DETRITUS 1%

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL PLUNGE POOL RUN RIFFLE CASCADE

NO WATER DIRTY WATER

SPP: _____ SIZE _____ ♂ _____ ♀ _____ ?

0 caddis flies

COMMENTS:

Random No.: _____

Site No.: 15

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leiohuhiki

HSA CODE: _____

TEMPERATURE: _____ (°C)

NAME: Hilawe

ELEVATION: _____ (ft.)

DATE: 11 15 2005
Mo. Day Yr.

TIME: 11:10
(START)

AM TO 11:20 AM
PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT _____

SAND _____

GRAVEL 25%

COBBLE _____

BOULDERS 25%

BEDROCK 40%

DETRITUS 10%

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL

PLUNGE POOL

RUN

RIFFLE

CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

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0 caddis flies

COMMENTS:

Random No.: _____

Site No.: 16

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM OBSERVER: Leihua Hilei
HSA CODE: _____ - _____ - _____ TEMPERATURE: _____ (°C)
NAME: Hilawe ELEVATION: _____ (ft.)
DATE: 11 / 15 / 2005 TIME: 11:22 AM TO 11:29 AM
Mo. Day Yr. (START) PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT _____ SAND _____ GRAVEL 5%
COBBLE 25% BOULDERS 10% BEDROCK 60%
DETritus _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL PLUNGE POOL RUN RIFFLE CASCADE
NO WATER DIRTY WATER

SPP: _____ SIZE _____ ♂ _____ ♀ _____ ?

21 caddis flies

COMMENTS:

Random No.: _____ , _____

Site No.: 17

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leiohuh? Hilei

HSA CODE: - -

TEMPERATURE: (°C)

NAME: Hilawe

ELEVATION: (ft.)

DATE: 11 / 15 / 2005
Mo. Day Yr.

TIME: 11:32
(START)

AM TO 11:38 AM
PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT 50%

SAND

GRAVEL

COBBLE 50%

BOULDERS

BEDROCK

DETRITUS

HABITAT TYPE:

SURVEY AREA (l" x w" x h"):

POOL SIDE POOL

PLUNGE POOL RUN

RIFFLE CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

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No caddis flies

COMMENTS:

Random No.: ,

Site No.: 18

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leigha & Hilei

HSA CODE: - -

TEMPERATURE: (°C)

NAME: Hikawe

ELEVATION: (ft.)

DATE: 11 / 18 / 2005
Mo. Day Yr.

TIME: 11:40
(START)

AM
PM

TO 11:45
(STOP)

AM
PM

SUBSTRATE TYPE (%):

SEDIMENT

SAND

GRAVEL 50%

COBBLE

BOULDERS

BEDROCK 28%

DETRITUS 25%

HABITAT TYPE:

SURVEY AREA (l" x w" x h"):

POOL SIDE POOL

PLUNGE POOL RUN

RIFFLE CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

♀

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NO caddis flies

COMMENTS:

Random No.: ,

Site No.: 19

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Leiohuh3H'itei

HSA CODE: _____

TEMPERATURE: _____ (°C)

NAME: H'ilawe

ELEVATION: _____ (ft.)

DATE: 11 / 15 / 2005
Mo. Day Yr.

TIME: 11:47
(START)

AM
PM

TO 11:55
(STOP)

AM
PM

SUBSTRATE TYPE (%):

SEDIMENT _____

SAND 15%

GRAVEL _____

COBBLE 60%

BOULDERS 25%

BEDROCK _____

DETRITUS _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL

PLUNGE POOL RUN

RIFFLE CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

♀

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No caddis flies

COMMENTS:

Random No.: _____, _____

Site No.: 20

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM OBSERVER: _____
HSA CODE: _____ - _____ - _____. _____ TEMPERATURE: _____ (°C)
NAME: _____ ELEVATION: _____ (ft.)
DATE: _____ / _____ / _____ TIME: _____ AM TO _____ AM
Mo. Day Yr. (START) PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT _____ SAND _____ GRAVEL _____
COBBLE _____ BOULDERS _____ BEDROCK _____
DETRITUS _____

HABITAT TYPE: SURVEY AREA (l" x w" x h"): _____

POOL SIDE POOL PLUNGE POOL RUN RIFFLE CASCADE
NO WATER DIRTY WATER

SPP: SIZE ♂ ♀ ?

COMMENTS:

Random No.: _____ , _____

Site No.: _____

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Jeosip/Kaleo

HSA CODE: _____

TEMPERATURE: _____ (°C)

NAME: _____

ELEVATION: _____ (ft.)

DATE: 11 / 14 / 05
Mo. Day Yr.

TIME: 9:23
(START)

AM TO _____
PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT _____

SAND 20%

GRAVEL 20%

COBBLE 50%

BOULDERS 10%

BEDROCK _____

DETRITUS _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): Hilawe

POOL SIDE POOL

PLUNGE POOL

RUN

RIFFLE

CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

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COMMENTS:

Random No.: _____

Site No.: _____

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Kesiptaleo

HSA CODE: _____

TEMPERATURE: _____ (°C)

NAME: _____

ELEVATION: _____ (ft.)

DATE: 11 / 14 / 05
Mo. Day Yr.

TIME: 9:50
(START) AM PM

TO _____ AM PM
(STOP)

SUBSTRATE TYPE (%):

SEDIMENT _____ SAND _____ GRAVEL 48%

COBBLE 60% BOULDERS _____ BEDROCK _____

DETRITUS _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): Hilawc

POOL SIDE POOL PLUNGE POOL Riff CASCADE

NO WATER DIRTY WATER

SPP:

SIZE

♂

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No 'o'opu

COMMENTS:

Random No.: _____

Site No.: _____

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM

OBSERVER: Jessip/Kaleo

HSA CODE: - -

TEMPERATURE: (°C)

NAME:

ELEVATION: (ft.)

DATE: 11 / 4 / 05
Mo. Day Yr.

TIME: 9:58
(START)

AM TO AM
PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT 10%

SAND 20%

GRAVEL 20%

COBBLE 40%

BOULDERS 10%

BEDROCK

DETRITUS

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): Hi'i laue

POOL SIDE POOL

PLUNGE POOL

RUN

RIFFLE

CASCADE

NO WATER

DIRTY WATER

SPP:

SIZE

♂

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1'0'0pu

COMMENTS:

Random No.: ,

Site No.:

STREAM SURVEY FORM

SURVEY TYPE: RANDOM NONRANDOM OBSERVER: Jess. p. / kaler
HSA CODE: _____ - _____ - _____ : _____ TEMPERATURE: _____ (°C)
NAME: _____ ELEVATION: _____ (ft.)
DATE: 11 / 4 / 05 TIME: 10:19 AM TO _____ AM
Mo. Day Yr. (START) PM (STOP) PM

SUBSTRATE TYPE (%):

SEDIMENT 5% SAND _____ GRAVEL _____
COBBLE 20% BOULDERS 75% BEDROCK _____
DETRITUS _____

HABITAT TYPE:

SURVEY AREA (l" x w" x h"): Hillawp

POOL SIDE POOL PLUNGE POOL RUN RIFFLE CASCADE
NO WATER DIRTY WATER

SPP: _____ SIZE _____ ♂ _____ ♀ _____ ?

water - murky / hard to see

COMMENTS:

Random No.: _____ , _____

Site No.: _____