

Appendix B. Freshwater Invertebrate Sampling Data Sheets

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Project or Site Name & Location: 01 about .5 miles north of Laguna Seca on Barlog

Date: 3/15/94 Time: 1123 Observer(s): WKC, GA

Sample Number: _____ Location: East 25' off Barlog Cr. Rd.

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dam on swale

Substrate: sand

When Inubdated: ? When Desiccated: ?

Adjacent upland: grassy oak woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 30 in. Surface area: _____ ft² or 30 by 50 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 63 (°F) °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 65 (°F) °C Wind speed: 0

Wind direction (from): West Cloud cover: 5%

Vegetative Cover: Total: _____ % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 25-30 % (of total vegetative cover) 100% submergent

Dominant species: Rush or grass

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

other { Taxa Collected or Observed: One snipe - Linderella ~~appra~~, abundant
seed shrimp - Pacific Tree frog - large diving beetle
water boatman

Myers - 3/16/94 examined voucher specimens

Linderella occidentalis 2 adults & few very young

General Comments: Picture #7-10

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: 01

Date: 3/29/94 Time: 1320 Observer(s): WKC, SB, BD

Sample Number: _____ Location: Barlow Crty. Rd. .5 mile from Raceway

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dammed

Substrate: Mud

When Inubdated: _____ When Desiccated: _____

Adjacent upland Grassy Oak Woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 24 in. Surface area: _____ ft² or 20 by 40 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 62 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 62 °F / °C Wind speed: 0-5

Wind direction (from): West Cloud cover: 80%

Vegetative Cover: Total: 5 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: rushes

Taxa Collected or Observed: _____

Assassin bug One swiipe 50 Lindeniella Abundant

Water boatman larval stage also

Pacific tree frogs + larvae

♂ + ♀ Lindeniella - Myers identified

voucher specimens

General Comments: _____

Project or Site Name & Location: Site #1 Berkey Cny RdDate: 4/13/94 Time: 1425 Observer(s): NKCSample Number: _____ Location: Berkey Cny RdSampling Method: fish net, dip net, sien, other: _____Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dammed

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: Oak grasslandHabitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____Water Conditions: Water depth: 12-18 in. Surface area: _____ ft² or 12 by 30 ft.Turbidity: none, slight, moderate, extreme, other: _____Water temperature: 74 °F/°C pH: 6.5 Conductivity: _____ D.O.: _____Weather Conditions: Air temperature: 61 °F/°C Wind speed: 10-15 mphWind direction (from): west Cloud cover: 0%Vegetative Cover: Total: 30 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 30 % (of total vegetative cover)Dominant species: rushes

Taxa Collected or Observed: _____

Adult Pacific tree frog + larvae 10 swipes dip net no Lunderelladamsel fly larvae 2 types 3 swipes fish net NO A.T. californianaeseed shrimpclam shrimpwater boatmenPair of mallards

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: #02 - 200' North of #01
(Same as Pond #33 from 1992 Survey)

Date: 3/15/94 Time: 1140 Observer(s): WKC, SA

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____

Substrate: sandy mud

When Inubdated: ? When Desiccated: ?

Adjacent upland: Grassy Oak woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or 20 by 15 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 63 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 65 °F / °C Wind speed: 0

Wind direction (from): west Cloud cover: 5%

Vegetative Cover: Total: 5 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 100 % (of total vegetative cover) grasses

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: grasses

Taxa Collected or Observed: One swipec (Lindnerella) - abundance (low-moderate)
other common insects observed, 2nd swipec still moderate

young Lindnerella (5m) Myers 3/18/94 examined
voucher specimens

General Comments: Picture #8 - 12%

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: 02

Date: 3/29/94 Time: 1340 Observer(s): WKC, SB, BD

Sample Number: _____ Location: Barlow Cny Road

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: sand + mud

When Inubdated: _____

When Desiccated: _____

Adjacent upland: Oak grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 24 in. Surface area: _____ ft² or 6 by 10 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 62°F/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 62°F/°C Wind speed: 0-5

Wind direction (from): West Cloud cover: 90%

Vegetative Cover: Total: 15 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 15 % (of total vegetative cover)

Dominant species: 16 in leaved Juncus

Taxa Collected or Observed: One snipe 5 Linderella

*Linderella confirmed
by Meyer*

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Jones Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site #2

Date: 4/13/94 Time: 1445 Observer(s): WKC, SB

Sample Number: _____ Location: Barlow caly. Rd. 100' from site #1

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dammed or plugged culvert

Substrate: _____

When Inubdated: _____

When Desiccated: _____

Adjacent upland: Dak grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 12-18 in. Surface area: _____ ft² or 6 by 10 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 67°F/°C pH: 6.4 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 67°F/°C Wind speed: 10-15 mph

Wind direction (from): West Cloud cover: 0%

Vegetative Cover: Total: 40 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 40 % (of total vegetative cover)

Dominant species: rushes

Taxa Collected or Observed: _____

Pacific tree frog + larval

damsel fly larval

water boatman

6 swipes dip net No Linderella

5 swipes fish net No A.T. californicus

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: 03 Engineers Playground
100 yds East of site 35

Date: 3/15/94 Time: 1345 Observer(s): WKC, SA

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in ^{inter.} stream, roadside ditch,
stock pond, other: or man made ditch

Substrate: muddy

When Inubdated: ? When Desiccated: ?

Adjacent upland: Oak grassland + chaparral

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: 30 in. Surface area: _____ ft² or 15 by 30 ft.

Turbidity: none, slight, moderate, extreme other: _____

Water temperature: 59 °F/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 63 °F/°C Wind speed: 0-5

Wind direction (from): West Cloud cover: 20%

Vegetative Cover: Total: _____ % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: next to Quail Gunnyer

Dipteran larvae

Damselfly larvae No Linderella

Water Boatman

Pacific tree frog + larvae

General Comments: picture 10 - 195°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: 03 Engineers Playground
100 yds East of Site 35

Date: 3/29/94 Time: _____ Observer(s): _____

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: _____ % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

Dropped from Surveys
Because too far from
UXO Removal Area.

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: 04 - 2 miles N. of Laguna Seca

Date: 3/15/94 Time: 1625 Observer(s): WKC, SA

Sample Number: _____ Location: Barley Cr. Rd. 2 miles from Raceway

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dam stock pond?

Substrate: MUD!

When Inubdated: _____ When Desiccated: _____

Adjacent upland: Oak grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or 50 by 100 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 70 (°F)/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 55 (°F)/°C Wind speed: 0-5

Wind direction (from): West Cloud cover: 75%

Vegetative Cover: Total: 0 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

Water boatman

No Linderiella

General Comments: Picture 24 - 250°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: 04

Date: 3/29/94 Time: 1350 Observer(s): WKC, SB, BD

Sample Number: _____ Location: _____

Sampling Method: fish net dip net sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____

Substrate: _____

When Inubdated: _____

When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: 30 in. Surface area: 150 ft² or 150 by 75 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 60 °F / °C Wind speed: 1 mph

Wind direction (from): West Cloud cover: 90%

Vegetative Cover: Total: 10 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: Calif. newt hatchling

8 swipes with large dip net No Linderiella
20 with fish net

General Comments: _____

Fresh Water Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pond #4

Date: 4/14/94 Time: 11:40 Observer(s): S. Bechta

Sample Number: _____ Location: Pond #4

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dammed up drainage (ephemeral)

Substrate: mud

When Inubdated: _____

When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly moderately heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 40 cm Surface area: _____ ft² or 180 by 100 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 69 °F / 1 °C pH: 8.3 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 69 °F / 1 °C Wind speed: 0-5

Wind direction (from): SW Cloud cover: 15%

Vegetative Cover: Total: 5-10 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 5 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 95 % (of total vegetative cover)

Dominant species: dead branches of plant

Taxa Collected or Observed: _____

20 swipes small dip net 5 swipes kick-net

water boatmen

tree frog larvae

seed shrimp

amphipods

may fly / stone fly ? larvae

no water sample taken

lesser yellow legs seen earlier

Killdeer

General Comments: dead microtus found near pond

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site # 05

Date: 3/29/94 Time: 1105 Observer(s): WKC, SB

Sample Number: _____ Location: adjacent to high tension power lines

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: sand + mud

When Inubdated: _____

When Desiccated: _____

Adjacent upland: Grassy oak woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 12 in. Surface area: _____ ft² or 200 by 100 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 62 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 66 °F / °C Wind speed: 0-5

Wind direction (from): West Cloud cover: 90 %

Vegetative Cover: Total: 98 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 98 % (of total vegetative cover)

Dominant species: rushes

Taxa Collected or Observed: _____

Pacific tree frogs + larvae

Gastropods seed shrimp

No clam shrimp

Water boatman

20 Swipes with large dip net No Linderella

damselfly + larvae

dragon fly + larvae

4 mallards

Tree shrews

General Comments: picture # 11 forming nest

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95811-1914

Project or Site Name & Location: Site #5

behind WXO St. 5

Date: 4/13/94 Time: 1220 Observer(s): WKC, SB

Sample Number: _____ Location: _____

Sampling Method: fish net dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: Oak grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 8 in. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 68 °F/°C pH: 8.6 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 63 °F/°C Wind speed: 10-15 mph

Wind direction (from): west Cloud cover: 60%

Vegetative Cover: Total: 98 % (of water area)

Algae: 15 % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

- Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 98 % (of total vegetative cover)

Dominant species: Rushes

Taxa Collected or Observed: _____

Pacific tree Frog - larvae 10 swipes dip net No Linderella

Odonata + adults

Water boatman + backswimmers 20 swipes fish net no A. tigrinus

Damselfly larvae spp. californica

seed shrimp

Gastropods

6 mallards

3 shorebirds (Arreos?)

Garter snake

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site 11

Date: 3/15/94 Time: 1414 Observer(s): WKC, SA

Sample Number: _____ Location: Eucalyptus + Hankens Ranch Rd.

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: organics and mud

When Inubdated: _____ When Desiccated: _____

Adjacent upland: Dark grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 6 in. Surface area: _____ ft² or 200 by 250 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 (°F) / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 57 (°F) / °C Wind speed: 5-10

Wind direction (from): West Cloud cover: 50%

Vegetative Cover: Total: 100 % (of water area)

Algae: 30 % (of total vegetative cover)

Submergent vascular plants: 100 % (of total vegetative cover)

Dominant species: grasses + smart weed

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 100 % (of total vegetative cover)

Dominant species: grasses + smart weed

Taxa Collected or Observed: Lindernella present abundance low-moderate

gastropods

pacific tree frogs + larvae

corp. pods

Emergent veg. makes sampling difficult

Lindernella occidentalis ♂ + ♀

Myers 3/1/96

General Comments: Picture 13 - 186°

Project or Site Name & Location: Site #11Date: 3/29/94 Time: 0945 Observer(s): WKC, SB, BDSample Number: _____ Location: Eucalyptus + Hinkens Rock Ed.Sampling Method: fish net, dip net, sien, other: _____Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____Substrate: sand

When Inubdated: _____

When Desiccated: _____

Adjacent upland: Grassy oak woodlandHabitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____Water Conditions: Water depth: 10cm, Surface area: _____ ft² or 120 by 15 ft.Turbidity: none, slight, moderate, extreme, other: _____Water temperature: 56 (°F) / °C

pH: _____

Conductivity: _____

D.O.: _____

Weather Conditions: Air temperature: 64 (°F) / °CWind speed: 0

Wind direction (from): _____

Cloud cover: 80%Vegetative Cover: Total: 100 % (of water area)Algae: 30 % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 1 % (of total vegetative cover)Dominant species: callitrichae water starwortEmergent vascular plants: 100 % (of total vegetative cover)Dominant species: Rush / Smartweed

Taxa Collected or Observed: _____

6 dips large dip net no hindeniella8 dips small dip nettree frogtadpolesGastropodsDitricidae beetlesClam shrimpodonataarachnidsostracods - Algaeget Brachyura, etcjuvenile? amphipoda

General Comments: _____



Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord

Pond #11

Date: 4/13/94 Time: 1400 Observer(s): S. Bechta + B. Collins

Sample Number: #11 Location: Entrance to MOUT Facility

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubdated: _____ When Desiccated: by 4/13

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: _____ % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

Pond Dry

General Comments: _____

Fresher Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord site #16

Date: 3/15/94 Time: 0955 Observer(s): WKC, SA, DHW, LDA

Sample Number: _____ Location: North of Wolf Hill

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, (pool in stream), roadside ditch, stock pond, other: _____

Substrate: mud

When Inubdated: ?

When Desiccated: ?

Adjacent upland: Grassland Oak woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 42 in. Surface area: _____ ft² or 200' by 250' ft.

Turbidity: none, slight, moderate, (extreme), other: chocolate

Water temperature: 56 (°F) °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 56 (°F) °C Wind speed: 0-2

Wind direction (from): _____ Cloud cover: 5% clouds

Vegetative Cover: Total: _____ % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 100 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: One dip - approx. 100 (Abundant) Linderiella occidentalis

water boatman - common

Ab A.T. californiense

diviside beetles - common

4 Pacific tree frogs ID + larvae

1 pair of Canadian Geese (possibly nesting)

identified as Linderiella occidentalis, 3 age classes ♂+♀ adult
Myers 3/18/94 identified voucher specimens

General Comments: Picture #1 - 50° Picture #2 - 17°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site #16

Date: 3/29/94 Time: 1430 Observer(s): WKC, SB

Sample Number: _____ Location: Impossible Guy Rd. .5 mile from

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubdated: _____

When Desiccated: _____

Adjacent upland: Chapparal

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 740" in. Surface area: _____ ft² or 200 by 150 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 60 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 62 °F / °C Wind speed: 0-5

Wind direction (from): West Cloud cover: 90%

Vegetative Cover: Total: 5 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: Rushes

Taxa Collected or Observed: One snake lg. Dip net one shrimp (Lindnerella)

Pacific tree frog + larvae 20 snakes 5- Lindnerella Abundance (Low)

Seed shrimp

water boatman

No Clam shrimp

Odonata

dansel fly larvae

Pair of Canadian Geese nesting
Pair of mallards

Lindnerella

confirmed from
voucher specimens
by Myers

General Comments: _____

Freshwater Invertebrate Sampling Data sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pond #16Date: 4/14/94 Time: 11⁰⁰ Observer(s): S. BechteSample Number: # Location: Pond #16Sampling Method: fish net, dip net, sien, other: _____Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____Substrate: mod/clay

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed slightly moderately/heavily trampled, contains trash,
other: _____Water Conditions: Water depth: 7740" in. Surface area: _____ ft² or 50 by 100 ft.Turbidity: none, slight, moderate, extreme, other: _____Water temperature: 62 (°F) / °C pH: 6.7 Conductivity: _____ D.O.: _____Weather Conditions: Air temperature: 73 (°F) / °C Wind speed: 0-5Wind direction (from): SW Cloud cover: 15%

Vegetative Cover: Total: _____ % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: 10 dips w/kick net20 trays small net 1 Fairy shrimpoligatys not sure if got it in bottleseed shrimpclam shrimp did nottree frog larvae no voucher Photos 31, 32, 33new type of egg mass specimen takenwater boatmengiant water beetleGeneral Comments: canada goose still nesting

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Site # 17

Date: 3/15/94 Time: 1045 Observer(s): WKC, SA

Sample Number: _____ Location: North of Laguna Sea Recovery

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____ or intermittent drainage

Substrate: Muddy

When Inubdated: ? When Desiccated: ?

Adjacent upland: grassy oak woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____ 2 separate areas

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or 30' by 30' North 6" deep
70 ft. South 4" deep
Turbidity: none, slight, moderate, extreme, other: chocolate 8" deep

Water temperature: 64 (°F)/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 66 (°F)/°C Wind speed: 0-2

Wind direction (from): West Cloud cover: 5%

Vegetative Cover: Total: _____ % (of water area)

Algae: 10 % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 30 % (of total vegetative cover)

Dominant species: algae

Emergent vascular plants: 50 % (of total vegetative cover)

Dominant species: Cattails / Sedges / Rushes

Taxa Collected or Observed: _____

Ditricide larvae + water boatman

Pacific tree frog

Odonata or Zygoptera

No Linderella in North part but south part which is connected by swampy area.
No Linderella in South part either.

General Comments: Picture 3 - 7° Picture 4 - 80° Picture # 5 - 290°
Picture # 6 - 307°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: 17

Date: 3/29/94 Time: 1450 Observer(s): WKC, SB

Sample Number: _____ Location: Laguna Seca Railway

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: Grassy Oak Woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 6 in. Surface area: _____ ft² or 50 by 50 ft. > Two parts

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 60 °F/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 62 °F/°C Wind speed: 0-5

Wind direction (from): West Cloud cover: 90

Vegetative Cover: Total: 60 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 60 % (of total vegetative cover)

Dominant species: cattail, Ruckes

Taxa Collected or Observed: _____

small portion - seed shrimp, dragonfly larvae

water beetle + water boatman

Pacific tree frog larvae 15 swipes large dip net no Lunderella

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pond #17

Date: 4/14/94 Time: 10:30 Observer(s): S. Bucka

Sample Number: _____ Location: Pond #17

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____

Substrate: mud/clay

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: 4 in. Surface area: _____ ft² or 20 by 30 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 68 °F / °C pH: 7.4 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 75F °F / °C Wind speed: 0-5

Wind direction (from): SW Cloud cover: 15%

Vegetative Cover: Total: _____ % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

Tree frog

misc. inverts, very few

10 dips w/ small net

no Linderiella

clam shrimp

water boatman

water
no sample taken

General Comments: some smaller side ponds dry
just main pond still has water

Photos 28 & 30

29 didn't turn out

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site # 35 East side of Road
3 miles North of Range Control

Date: 3/15/94 Time: 1220 Observer(s): WKC, SA

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____

Substrate: Mud

When Inubdated: ? When Desiccated: ?

Adjacent upland: Chapparal

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: 18 in. Surface area: _____ ft² or 30 by 300 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 67 °F / °C Wind speed: 0-2

Wind direction (from): West Cloud cover: 10%

Vegetative Cover: Total: 5 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 10 % (of total vegetative cover)

Dominant species: grass or rush

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 10 % (of total vegetative cover)

Dominant species: Sedge + grasses

Taxa Collected or Observed: Raccoon tracks + Coyote tracks

Pacific Tree frog 1 swipe lindsiella - abundant

dansil fly larvae other swipes smaller shrimp (second hatch)?

mosquito

seed shrimp

adults

1 ad. *Rhyacionia* occidentalis - 3 age classes

Myers 3/14

General Comments: Picture # 9 - 24°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site # 35

Date: 3/29/94 Time: 0910 Observer(s): WKC, SB, BD

Sample Number: _____ Location: adjacent to uxo site 16

Sampling Method: (fish net), (dip net), sien, other: _____

Habitat Type: (vernal pool), rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: clay or mud

When Inubdated: _____

When Desiccated: _____

Adjacent upland: Grassy oak woodland + chaparral

Habitat Condition: (undisturbed), slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 24 in. Surface area: _____ ft² or 50 by 200 ft.

Turbidity: none, slight, moderate, (extreme), other: _____

Water temperature: 46 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 64 °F / °C Wind speed: 0

Wind direction (from): 0 Cloud cover: 80%

Vegetative Cover: Total: _____ % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 15 % (of total vegetative cover)

Dominant species: Sedge

Taxa Collected or Observed: _____ 10 swipes lg net 10 swipes small net 2 shrimp

Adult Pacific Tenebrion + larvae

Lindneriella abundance (low)

clam shrimp

seed shrimp

water boatman

ghost ridge

Lindneriella occidentalis
confirmed from voucher specimens
by Myers

General Comments: _____

Fresh Water Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pond #35

Date: 4/14/94 Time: 12:15 Observer(s): S. Bechtel

Sample Number: _____ Location: Pond #35

Sampling Method: fish net, (dip net) sien, other: _____

Habitat Type: (vernal pool) rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: mud/clay

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/(heavily) trampled, contains trash, other: formerly worked on with dozer as engineering training

Water Conditions: Water depth: 32cm Surface area: _____ ft² or 30 by 80 ft.

Turbidity: none, slight, (moderate) extreme, other: _____

Water temperature: 64 (°F) °C pH: 6.6 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 80 (°F) °C Wind speed: 0-5

Wind direction (from): SE Cloud cover: 25%

Vegetative Cover: Total: 40% % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

clam shrimp 20 swipes w/ small dip net

water boatman no Linderella

edentata

misc. fly larval

tree frog larval

General Comments: _____

Fresh Water Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site #36

Date: 3/15/94 Time: 1545 Observer(s): WKS, SA

Sample Number: _____ Location: Pilescitos Canyon Rd

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Dam

Substrate: _____

When Inubdated: _____

When Desiccated: _____

Adjacent upland: Grasslands

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 4' ~~ft~~ Surface area: _____ ft² or 50 by 50 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 69 (°F)/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 60 (°F)/°C Wind speed: 0-5 mph

Wind direction (from): West Cloud cover: 60%

Vegetative Cover: Total: 0 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: recent sheep grazing

Water boatman

damsel fly larvae

No Linderella found

seed shrimp

Pacific Tree Frog

General Comments: Picture 23 - 158°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site #36

Date: 3/29/93 Time: 1230 Observer(s): NKC, SB, BO

Sample Number: _____ Location: Pilescitos Cyn. Rd.

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, ~~pool in stream~~, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubdated: _____

When Desiccated: _____

Adjacent upland: grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: ? in. Surface area: _____ ft² or 100 by 75 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 62 °F / °C Wind speed: 0-3

Wind direction (from): 0 Cloud cover: 90

Vegetative Cover: Total: 5 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: Emergent

Taxa Collected or Observed: _____

seed shrimp

20 swipes with the large dip net

water boatman

No Linderella

Pacific Tree frog + larvae

Odonata

General Comments: _____

Freshwater Invertebrate Sampling Data sheet

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Fort Ord Pond #36

Date: 4/14/94 Time: 1500 Observer(s): S. Bechte

Sample Number: _____ Location: Pond #36

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,

stock pond, other: _____

Substrate: mud

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,

other: disturbed by sheep

Water Conditions: Water depth: 3 in. Surface area: _____ ft² or 90 by 80 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 74 °F / °C pH: 6.7 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 82 °F / °C Wind speed: 0-5

Wind direction (from): SE Cloud cover: 25%

Vegetative Cover: Total: 10% % (of water area)

Algae: 5% % (of total vegetative cover)

Submergent vascular plants: 5% % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 2 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 90% % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

15 swipes small dip net 5 swipes kick-net

1 CA newt larvae w/ legs

Tree Frog larvae

odontata larvae

no Fairy Shrimp

misc. Fly larvae

gud shrimp

water boatmen

General Comments: _____

Fresh Water Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Site # 37

Date: 3/15/94 Time: 1530 Observer(s): WKC, SA

Sample Number: _____ Location: Pilescitos canyon

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dam in swale

Substrate: mud + rush

When Inubdated: _____

When Desiccated: _____

Adjacent upland: grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 4' Surface area: _____ ft² or 200 by 200ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 67°F/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 60°F/°C Wind speed: 0-5

Wind direction (from): West Cloud cover: 60%

Vegetative Cover: Total: 2 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 2 % (of total vegetative cover)

Dominant species: around edge of pond rushes + grasses

Taxa Collected or Observed: 1 pair canadian geese

Great Blue Heron tracks

Water boatman

Gastropod

No Linderiella found

Damselfly larvae

Scuds

Dipteron

Odonata

General Comments: picture 21 - 181° 22 - 165°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: #37

Date: 3/27/94 Time: 1300 Observer(s): NKG, SB, BD

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: Mud

When Inubdated: _____

When Desiccated: _____

Adjacent upland: Grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: ? in. Surface area: _____ ft² or 150 by 150 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 °F/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 60 °F/°C Wind speed: 0-5

Wind direction (from): West Cloud cover: 90%

Vegetative Cover: Total: 5 % (of water area) around edge

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: rush

Taxa Collected or Observed: 15 dips with large net

Pacific Tree frog + eggs

No Linderella

sand shrimp

adonata

water boatman

General Comments: _____

Freshwater Invertebrate Sampling Data sheet

Jones & St. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: East Ord Pond #37Date: 4/14/94 Time: 1530 Observer(s): S. BechtelSample Number: _____ Location: Pond #37Sampling Method: fish net, dip net, sien, other: _____Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____Substrate: Mud

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: sheep grazingWater Conditions: Water depth: 7 in. Surface area: _____ ft² or 100 by 75 ft.Turbidity: none, slight, moderate, extreme, other: _____Water temperature: 77 °F / °C pH: 7.2 Conductivity: _____ D.O.: _____Weather Conditions: Air temperature: 77 °F / °C Wind speed: 5-10 mphWind direction (from): W Cloud cover: 35%Vegetative Cover: Total: 5% % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 100 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

20 swipes small net 5 swipes kick net4 CA newt egg masses1 CA newt larvae w/eggs seed shrimpTree Frog larvalTree Frog adultsOdontata larvaemisc. fly larvaewater boatmansmall water beetleGeneral Comments: stock pond with metal culvert in spillway

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Mudhen L. West

Date: 3/15/94 Time: 1430 Observer(s): WKC, SA

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: man made pond separated by road/ditch

Substrate: mud

When Inubdated: _____

When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 12 ^{in. shallow} Surface area: _____ ft² or 300 by 25 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 70 (°F) / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 60 (°F) / °C Wind speed: 5-10

Wind direction (from): West Cloud cover: 60 %

Vegetative Cover: Total: 50 % (of water area)

Algae: 20 % (of total vegetative cover)

Submergent vascular plants: 15 % (of total vegetative cover)

Dominant species: grasses

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 50 % (of total vegetative cover)

Dominant species: Smartweed + rushes

Taxa Collected or Observed: No Linderiella found

Killdeer

Mallards 10-20, pair of pintail, common merganser

mosquito fish

water boatman

gastropod

damsel fly larvae

chironomid

General Comments: picture 14, 15, 16 - 95°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Mudhen Lake West

Date: 3/29/94 Time: 10:53 Observer(s): B. Delgado, F.K. Finn

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: ≅ 30

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: lg. pond

Substrate: _____

When Inubdated: _____

When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or 400 by 100 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 82 °F °C Wind speed: 2 mph

Wind direction (from): SE Cloud cover: 90% cumulus

Vegetative Cover: Total: 70 % (of water area)

Algae: 30 % (of total vegetative cover) ≅ 1/2 emergent, 1/2 on pond surface

Submergent vascular plants: 10 % (of total vegetative cover)

Dominant species: at least 3 different species

Floating vascular plants: 3 % (of total vegetative cover)

Dominant species: floating fern (Azolla ~~umbicaria~~ fillicuoides)

Emergent vascular plants: 55 % (of total vegetative cover)

Dominant species: smartweed (Polygonum sp.)

Taxa Collected or Observed: various insect larvae

mosquito fish (~~Gambusia~~) Gambusia sp.

molluscs

≅ 20 to adult frog frogs - observed

2 canada geese - observed

1 amphib egg collected, apparently of bull frog

amphiboda

General Comments: Should be rechecked for red-legged frog

Fresh Water Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Mudhen Lake West

Date: 4/14/94 Time: 1300 Observer(s): S. Bechtel

Sample Number: _____ Location: Mudhen Lake West

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: pond

Substrate: clay/mud

When Inubdated: _____

When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 4 1/2 in. Surface area: _____ ft² or 250 by 150 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 78 °F / 26 °C pH: 8.6 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 76 °F / 25 °C Wind speed: 0-5

Wind direction (from): SW Cloud cover: 30%

Vegetative Cover: Total: 90% % (of water area)

Algae: 10 % (of total vegetative cover)

Submergent vascular plants: 90 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 10 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 40 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: very few aquatic invertebrates
probably because of highly abundant mosquito fish
midge, water boatman
pair of lesser yellowlegs?
pair killdeer
red wing black birds

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & St. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord Mudhen Lake East

Date: 4/14/99 Time: 1320 Observer(s): S. Bechtel

Sample Number: _____ Location: Mudhen Lake East

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: pond/lake

Substrate: mud

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: ? in. Surface area: _____ ft² or 400 by 200 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 72 (°F) °C pH: 7.6 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 77 (°F) °C Wind speed: 5-10

Wind direction (from): N Cloud cover: 30%

Vegetative Cover: Total: 10 % (of water area)

Algae: 5 % (of total vegetative cover)

Submergent vascular plants: 10 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 10 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 75 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

15 dips w/ Kick net

10 dips w/small net

Can hear bull frog

2 pair mallard

1 pair Canada geese

coots

gets deep very fast

a lot of gambusia

saw what looked like adult tree frogs

not much else I could see or get to in water

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Mudhen L. EAST

Date: 3/15/94 Time: 1500 Observer(s): WKC, SA

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,

~~stop pond~~ other: man made pond

Substrate: mud

When Inubdated: _____ When Desiccated: _____

Adjacent upland: grassy oak woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: +4' ~~in~~ Surface area: _____ ft² or 600' by 300'

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 (°F)/°C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 61 (°F)/°C Wind speed: 5-10 mph

Wind direction (from): West Cloud cover: 60%

Vegetative Cover: Total: _____ % (of water area)

Algae: 5 % (of total vegetative cover)

Submergent vascular plants: 50 % (of total vegetative cover)

Dominant species: smart weed

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 10 % (of total vegetative cover)

Dominant species: smart weed

Taxa Collected or Observed: No Linderella found

Vegetation emergent around edges out approx. 10-50'

Cormorant + belted Kingfisher

American Coot

large frogs species unknown

Sunfish caught in net

General Comments: picture 17-169° 18-125° 19-78°

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Mud Hen East

Date: 3/29/94 Time: 10:35 Observer(s): B. DeGalo F.K. Kinn

Sample Number: _____ Location: _____

Sampling Method: fish net, dip net, sien, other: 10 dip net samples

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: large pond

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or 900 by 250 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 82 °F / °C Wind speed: 2 mph

Wind direction (from): SE Cloud cover: partly cloudy

Vegetative Cover: Total: 15 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 95 % (of total vegetative cover)

Dominant species: Polygonum

Floating vascular plants: 5 % (of total vegetative cover)

Dominant species: Aizolla sp.

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: various insects, mosquito fish (small)

Canada goose (1) on shoreline

imm. double crested cormorant (1)

mallards (5-6)

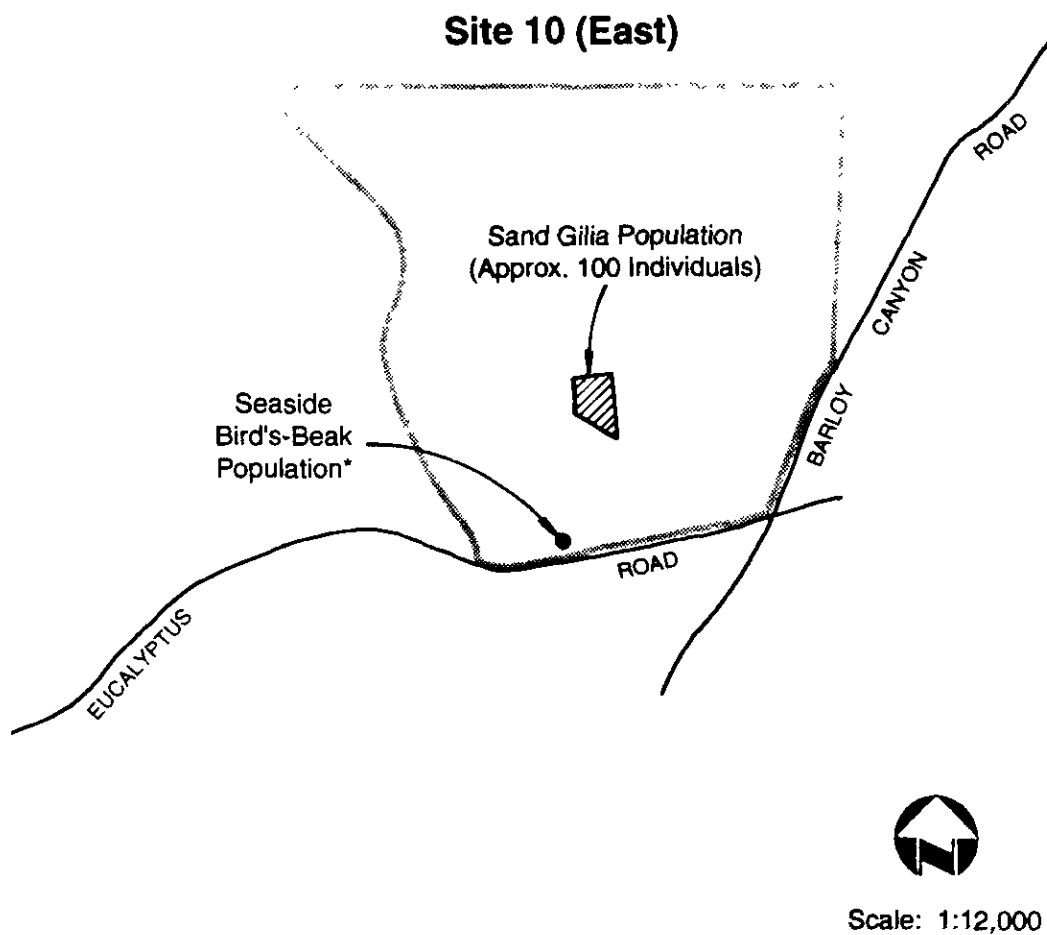
coots (≈10) } in or over H₂O

1 dead bull frog larvae coll. and many adults seen (1 per 20 feet)

flushing into water from shoreline upon approach, often

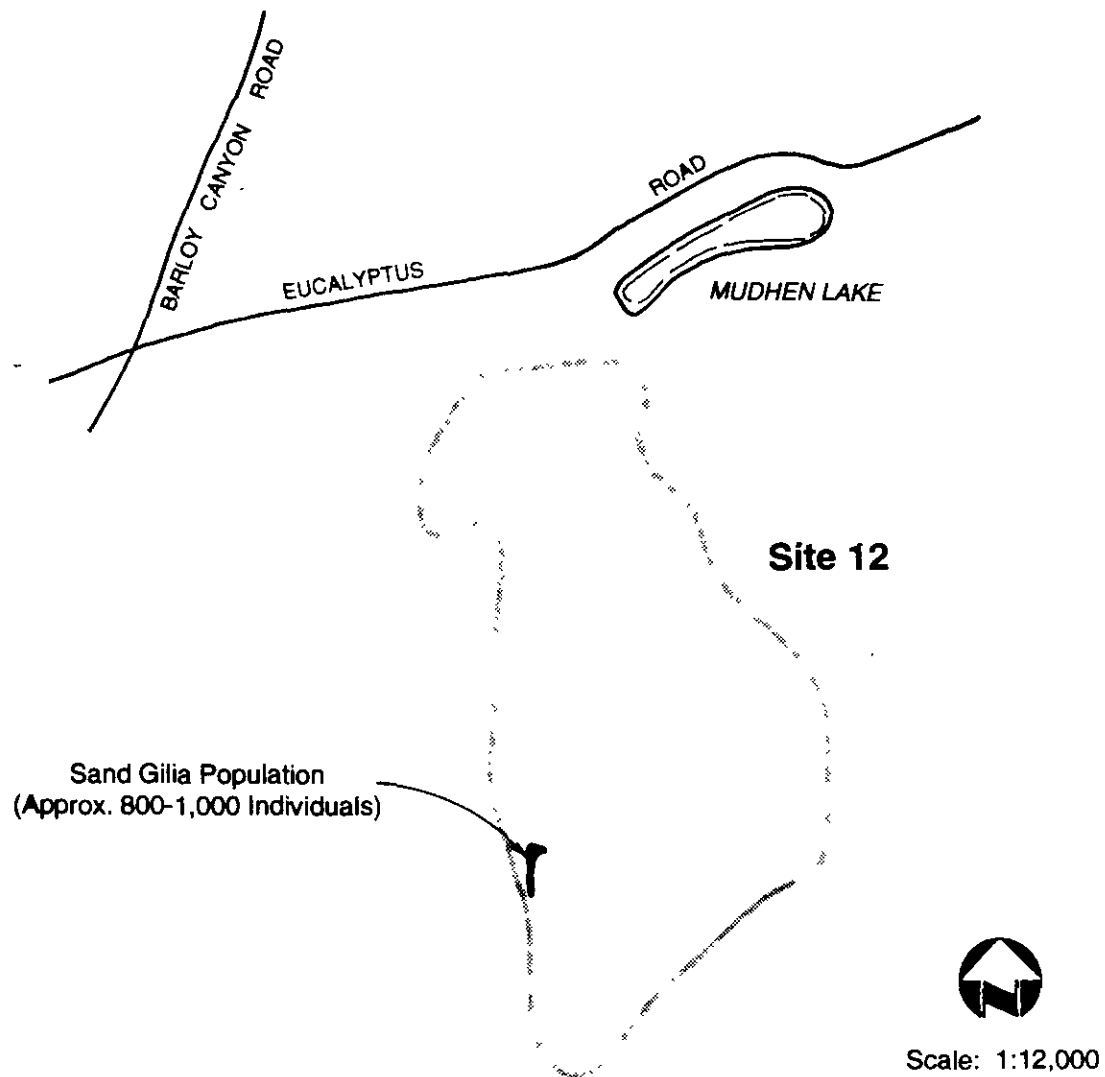
General Comments: bullfrogs or red-leggeds ≈ 5 cm wide

Figure C-1
Area Occupied by Sand Gilia and Approximate Location
of Seaside Bird's-Beak Population at Site 10 (East)



* Source: U.S. Army Corps of Engineers, Sacramento District 1992.

Figure C-2
Area Occupied by Sand Gilia at Site 12



Appendix C. Locations of Populations of Herbaceous Plant Species Included in the Habitat Management Plan
