APPENDIX 8.2A

CNDDB Species Lists

AMBYSTOMA CALIFORNIENSE
CALIFORNIA TIGER SALAMANDER
Element Code: AAAAA01147

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations
General: FEDERAL LISTING REFERS TO POPULATIONS IN SANTA BARBARA COUNTY ONLY.
Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 57 Map Index:12031
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: BRODE, J. 1986 (PERS)
Quad Summary: CLEMENTS (3812121/478A)*, GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: MACKVILLE RD, 2 MILES NORTH OF JUNCTION WITH HIGHWAY 88/12, NORTH OF CLEMENTS.

Dates Last Seen
Element: 1978-01-11
Site: 1978-01-11

Lat/Long: 38°14'10" / 121°05'19"
UTM: Zone-10 N4233533 E667286
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1 mile

Township: 05N
Range: 08E
Section: 34 Qtr SE
Meridian: M
Elevation: 200 ft

Comments
Distribution:
Ecological:
Threat:
General: J. STEELE FIELD NOTES #1. 2 FEMALE FOUND IN THE MIDDLE OF THE ROAD. ROAD WET FOLLOWING RAIN. MANY TREE FROGS, HYLA REGILLA, CROSSING BETWEEN LARGE PONDS. ROAD SEARCH BETWEEN 2100 TO 2300 HOURS.
Owner/Manager: UNKNOWN

Occurrence No. 75 Map Index:11986
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: BRODE, J. 1986 (PERS)
Quad Summary: GOOSE CREEK (3812131/495D)*, CLAY (3812132/495C)
County Summary: SACRAMENTO
SNA Summary:
Location: N SIDE HWY 104 AT MILEPOST 11.21 NEAR RANCHO SECO, APPROX 2 MI N OF CLAY.

Dates Last Seen
Element: 1981-12-23
Site: 1981-12-23

Lat/Long: 38°21'15" / 121°07'23"
UTM: Zone-10 N4246572 E664006
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1 mile

Township: 06N
Range: 08E
Section: 20 Qtr SW
Meridian: M
Elevation: 130 ft

Comments
Distribution:
Ecological:
Threat:
General: J. BRODE FIELD NOTES #308.
Owner/Manager: UNKNOWN

Occurrence No. 113 Map Index:17436
Occ Rank: Good
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: BORDEN RANCH, APPROXIMATELY 8 MI NORTH OF CLEMENTS AND 2 MI SOUTH OF THE SACRAMENTO-SAN JOAQUIN COUNTY LINE.

Dates Last Seen
Element: 1990-04-02
Site: 1990-04-02

Lat/Long: 38°16'26" / 121°03'48"
UTM: Zone-10 N4237764 E669415
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1/5 mile

Township: 05N
Range: 08E
Section: 23 Qtr NE
Meridian: M
Elevation: 230 ft

Comments
Distribution: 3 LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED SUBDIVISION; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

AMBYSTOMA CALIFORNIENSE (cont.)
CALIFORNIA TIGER SALAMANDER
Element Code: AAAAA01147

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Occurrence No. 114 Map Index:17437
Occ Rank: Good
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: BORDEN RANCH, APPROXIMATELY 8 MI NORTH OF CLEMENTS AND 1 MI SOUTHWEST OF THE SACRAMENTO-SAN JOAQUIN COUNTY LINE.

Dates Last Seen
Element: 1990-04-04
Site: 1990-04-04

Lat/Long: 38°16'15" / 121°04'21"
UTM: Zone-10 N4237417 E668620
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1/5 mile

Township: 05N
Range: 08E
Section: 23 Qtr SW
Meridian: M
Elevation: 250 ft

Comments
Distribution: ONE LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED SUBDIVISION; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

Occurrence No. 115 Map Index:17438
Occ Rank: Good
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, JUST SOUTH OF HWY 88, APPROXIMATELY 9 MI NNE OF CLEMENTS.

Dates Last Seen
Element: 1990-04-04
Site: 1990-04-04

Lat/Long: 38°15'21" / 121°01'55"
UTM: Zone-10 N4235822 E672197
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1/5 mile

Township: 05N
Range: 09E
Section: 30 Qtr SW
Meridian: M
Elevation: 230 ft

Comments
Distribution: 2 LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED SUBDIVISION; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

Occurrence No. 116 Map Index:17439
Occ Rank: Good
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)*, CLAY (3812132/495C)
County Summary: SACRAMENTO
SNA Summary:
Location: BORDEN RANCH, APPROXIMATELY 1.25 MI SOUTH OF RANCHO SECO NUCLEAR POWER PLANT AND 14 MI NNW OF CLEMENTS

Dates Last Seen
Element: 1990-04-03
Site: 1990-04-03

Lat/Long: 38°19'10" / 121°07'23"
UTM: Zone-10 N4242719 E664086
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1/5 mile

Township: 05N
Range: 08E
Section: 05 Qtr NE
Meridian: M
Elevation: 220 ft

Comments
Distribution: 5 LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED DEVELOPMENT; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

AMBYSTOMA CALIFORNIENSE (cont.)
CALIFORNIA TIGER SALAMANDER
Element Code: AAAAA01147

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Occurrence No. 117 Map Index:17440
Occ Rank: Good
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: AMADOR
SNA Summary:
Location: FORSTER RANCH, JUST EAST OF HWY 88 AND APPROXIMATELY 12 MI NE OF CLEMENTS.

Dates Last Seen
Element: 1990-04-05
Site: 1990-04-05

Lat/Long: 38°16'38" / 121°00'37"
UTM: Zone-10 N4238244 E674048
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1/5 mile

Township: 05N
Range: 09E
Section: 20 Qtr NW
Meridian: M
Elevation: 270 ft

Comments
Distribution: ONE LARVA OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: POSSIBLE THREAT OF CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

Occurrence No. 118 Map Index:17443
Occ Rank: Good
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, ONE MI NW OF HWY 88 AND APPROXIMATELY 10 MI NNE OF CLEMENTS.

Dates Last Seen
Element: 1990-04-04
Site: 1990-04-04

Lat/Long: 38°16'29" / 121°02'19"
UTM: Zone-10 N4237899 E671569
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1/5 mile

Township: 05N
Range: 09E
Section: 19 Qtr NW
Meridian: M
Elevation: 350 ft

Comments
Distribution: 2 LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED DEVELOPMENT; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

AQUILA CHRYSAETOS (NESTING AND WINTERING)
GOLDEN EAGLE
Element Code: ABNKC22010

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S3	

Habitat Associations

General: ROLLING FOOTHILL OR COAST-RANGE TERRAIN, WHERE OPEN GRASSLAND TURNS TO SCATTERED OAKS, SYCAMORES, OR LARGE DIGGER PINES.
Micro: CLIFF-WALLED CANYONS PROVIDE NESTING HABITAT IN MOST PARTS OF RANGE; ALSO, LARGE TREES IN OPEN AREAS.

Occurrence No. 49 Map Index:24763
Occ Rank: Good
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: MANOLIS, T. 1992 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: 1.7 MILES WEST OF LOCH LANE RESERVOIR, 5 MILES ENE OF RANCHO SECO POWER PLANT, 9 MILES SOUTH OF IONE.

Dates Last Seen
Element: 1992-06-14
Site: 1992-06-14

Lat/Long: 38°21'39" / 121°01'45"
UTM: Zone-10 N4247491 E672189
Precision: SPECIFIC
Symbol Type: POINT
Radius: 80 meters

Township: 06N
Range: 09E
Section: XX Qtr XX
Meridian: M
Elevation: 400 ft

Comments

Distribution:
Ecological: NEST TREE IS A FOOTHILL PINE; SURROUNDING HABITAT CONSISTS OF BLUE OAK/FOOTHILL PINE WOODLAND ON THE SLOPE OF A BUTTE.
Threat:
General: IN 1992, 2 LARGE, NEARLY-FLEDGED YOUNG WERE OBSERVED ON THE NEST, WITH 2 ADULTS SOARING NEARBY.
Owner/Manager: UNKNOWN

NORTHERN HARDPAN VERNAL POOL

Element Code: CTT44110CA

List Status — Federal: None — State: None

NDDB Element Ranks — Global: G3 — State: S3.1

Other Lists

Habitat Associations
General: None for this Element
Micro: None for this Element

Occurrence No. 30 Map Index:11954
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: GRIGGS, T. 1980 (OBS)
Quad Summary: CLAY (3812132/495C)*, GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: S SIDE BORDEN RD JUST E OF JCT W/CLAY STATION RD. NEAR SAC/SAN JOAQUIN CO LINE)

Dates Last Seen — Element: 1983-XX-XX — Site: 1983-XX-XX

Lat/Long: 38°17'26" / 121°08'35"
UTM: Zone-10 N4239478 E662400
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1 mile

Township: 05N
Range: 07E
Section: 13 Qtr NW
Meridian: M
Elevation: 150 ft

Comments
Distribution: ANNUAL GRASSLAND SURROUNDS.
Ecological: VERNAL POOLS ON HIGH TERRACE ON REDDING-CORNING ASSOCIATION SOILS. SLOPE 0-20%. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Threat: CATTLE DISTURBANCE. FEED LOTS, IRRIGATED PASTURE, SUBURBIA SURROUND.
General:
Owner/Manager: UNKNOWN

Occurrence No. 50 Map Index:12052
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: GRIGGS, T. 1980 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary: Arroyo Seco Mesa
Location: CLAY E RD, 1.5 MI E (ACT 1.5-2.5 MI E) OF CLAY. INCL 3 SECS.NEAR RANCHO SECO PLANT.

Dates Last Seen — Element: 1986-06-20 — Site: 1986-06-20

Lat/Long: 38°19'59" / 121°04'31"
UTM: Zone-10 N4244324 E668233
Precision: SPECIFIC
Symbol Type: POLYGON
Area: 1,461.6 ac

Township: 06N
Range: 08E
Section: 27 Qtr XX
Meridian: M
Elevation: 220 ft

Comments
Distribution:
Ecological: "RED DIRT HOGWALLOWS" ON HIGH TERRACE. ORCUTTIA VISCIDA FOUND HERE BY STONE, 1986. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Threat: HEAVY CATTLE USE. SURROUNDING LAND GRAZED.
General: GRIGGS, 1980, EVALUATED MOST OF AREA FROM AERIAL PHOTOS. SEEN BY HOLLAND & DAINS, 1984
Owner/Manager: SMUD

Occurrence No. 53 Map Index:11998
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: GRIGGS, T. 1980 (OBS)
Quad Summary: CLEMENTS (3812121/478A)*, LOCKEFORD (3812122/478B), GOOSE CREEK (3812131/495D), CLAY (3812132/495C)
County Summary: SAN JOAQUIN
SNA Summary:
Location: NEAR COMANCHE RESERVOIR. 8 TO 10 MI E FROM HWY 99 ON LIBERTY RD. INCL 3 SECTS.

Dates Last Seen — Element: 1980-05-01 — Site: 1980-05-01

Lat/Long: 38°14'34" / 121°06'39"
UTM: Zone-10 N4234233 E665326
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1 mile

Township: 05N
Range: 08E
Section: 33 Qtr W
Meridian: M
Elevation: 190 ft

Comments
Distribution: A FEW SCATTERED POOLS AMONG ROLLING GRASSLAND OF WHICH GRIGGS COMMENTS NO BRODIAEA PRESENT.
Ecological: SLOPES 0-20%. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Threat: SURROUNDING LAND IS IRRIGATED PASTURE, OATS AND BARLEY.
General:
Owner/Manager: UNKNOWN

NORTHERN HARDPAN VERNAL POOL (cont.)

Element Code: CTT44110CA

List Status — Federal: None; State: None

NDDB Element Ranks — Global: G3; State: S3.1

Other Lists

Occurrence No. 104 Map Index:12026
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: HOLLAND & DAINS 1986 (MAP)
Quad Summary: CARBONDALE (3812141/495A)*, GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: WEST OF SOUTHERN PACIFIC RAILROAD TRACKS, BETW HWY 104 & CLAY STN RD, 6 MI N OF CLAY.

Dates Last Seen — Element: 1983-XX-XX; Site: 1983-XX-XX

Lat/Long: 38°22'46" / 121°05'43"
UTM: Zone-10 N4249436 E666387
Precision: SPECIFIC
Symbol Type: POLYGON
Area: 209.3 ac

Township: 06N
Range: 08E
Section: 16 Qtr NE
Meridian: M
Elevation: 160 ft

Comments
Distribution: DENSE DISTRIBUTION OF VERNAL POOLS. NORTHERN PORTION OF BOUNDED AREA IN NE 1/4 OF SE 1/4 SECT 9 & W 1/2 OF SW 1/4 SECT 10 HAS SPARSE POOLS.
Ecological: ON PENTZ-PARDEE-RED BLUFF ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP.INFO.
Threat:
General:
Owner/Manager: UNKNOWN

Occurrence No. 120 Map Index:12043
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: HOLLAND & DAINS 1986 (MAP)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: NORTH OF HWY 104 IN VICINITY OF HADSELVILLE CR, NORTH OF RANCHO SECO.

Dates Last Seen — Element: 1983-XX-XX; Site: 1983-XX-XX

Lat/Long: 38°21'42" / 121°05'11"
UTM: Zone-10 N4247483 E667184
Precision: SPECIFIC
Symbol Type: POLYGON
Area: 291.8 ac

Township: 06N
Range: 08E
Section: 22 Qtr XX
Meridian: M
Elevation: 160 ft

Comments
Distribution: DENSE DISTRIBUTION OF VERNAL POOLS.
Ecological: ON PENTZ-PARDEE-RED BLUFF ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO
Threat:
General:
Owner/Manager: UNKNOWN

Occurrence No. 121 Map Index:11996
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: HOLLAND, R. & V. DAINS 1986 (MAP)
Quad Summary: GOOSE CREEK (3812131/495D)*, CLAY (3812132/495C)
County Summary: SACRAMENTO
SNA Summary:
Location: NORTH OF HWY 104 NEAR THE SOUTHERN PACIFIC RR TRACKS, NORTH OF RANCHO SECO POWERPLANT

Dates Last Seen — Element: 1983-XX-XX; Site: 1983-XX-XX

Lat/Long: 38°21'37" / 121°06'55"
UTM: Zone-10 N4247264 E664671
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 1 mile

Township: 06N
Range: 08E
Section: 20 Qtr XX
Meridian: M
Elevation: 160 ft

Comments
Distribution: DENSE DISTRIBUTION OF VERNAL POOLS.
Ecological: ON PENTZ-PARDEE-RED BLUFF ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO
Threat:
General:
Owner/Manager: UNKNOWN

BRANCHINECTA LYNCHI
VERNAL POOL FAIRY SHRIMP
Element Code: ICBRA03030

List Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 159 Map Index:33679
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: WHITNEY, K. 1997 (OBS)
Quad Summary: CLAY (3812132/495C)*, GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: BORDEN RANCH, NORTH AND SOUTH OF BORDEN ROAD, ABOUT 2.5 MILES SOUTHEAST OF CLAY.

Dates Last Seen
Element: 1999-02-12
Site: 1999-02-12

Lat/Long: 38°17'59" / 121°07'43"
UTM: Zone-10 N4240537 E663621
Precision: NON-SPECIFIC
Symbol Type: POLYGON
Area: 4,272.1 ac

Township: 05N
Range: 08E
Section: 08 Qtr XX
Meridian: M
Elevation: 180 ft

Comments

Distribution: 1993: 21 FEATURES INSPECTED IN SEC 7, 13 FEATURES INSPECTED IN SEC 8, 10 FEATURES INSPECTED IN SEC 18. 1997: ONLY OBS IN SEC 13. 1999: OBS IN SEC 7 & 9.
Ecological: VERNAL POOL COMMUNITY DOMINATED BY PLAGIOBOTHRYS STIPITATUS, ELEOCHAN'S MACROSTACHYA, AND PSILOCARPHUS BREVISSIMUS.
Threat: AGRICULTURE
General: 1993: B. LYNCHI OBS IN 1 OF 21 FEATURES INSPECTED IN SEC 7, IN 1 OF 13 FEATURES IN SEC 13, & 2 OF 10 FEATURES IN SEC 18. SUGNET RECORD #'S 39, 40 & 41. 1997: 1000'S OBS. 1999: 100'S OBS BUT ONLY SURVEYED AREAS DESIGNATED AS PRESERVES.
Owner/Manager: PVT-AKT DEVELOPMENT

Occurrence No. 165 Map Index:33684
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: SUGNET & ASSOC. 1993 (PERS)
Quad Summary: GOOSE CREEK (3812131/495D)*, CLAY (3812132/495C)
County Summary: SACRAMENTO
SNA Summary:
Location: NORTH OF EAST CLAY RD AND SOUTH OF HWY 104. VICINITY OF RANCHO SECO.

Dates Last Seen
Element: 1982-01-05
Site: 1982-01-05

Lat/Long: 38°20'36" / 121°07'17"
UTM: Zone-10 N4245384 E664185
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 3/5 mile

Township: 06N
Range: 08E
Section: 29 Qtr XX
Meridian: M
Elevation: 150 ft

Comments

Distribution: VERNAL POOLS LOCATED SOMEWHERE IN SECTION 29.
Ecological: NATURAL VERNAL POOLS.
Threat:
General: B. LYNCHI OBSERVED IN THE 1 FEATURE INSPECTED. SUGNET RECORD #43.
Owner/Manager: UNKNOWN

Occurrence No. 169 Map Index:33685
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: SUGNET & ASSOC. 1993 (PERS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: BETWEEN DRY CREEK AND GOOSE CREEK. ABOUT 8 MILES NORTH OF CLEMENTS.

Dates Last Seen
Element: 1993-03-02
Site: 1993-03-02

Lat/Long: 38°16'20" / 121°04'13"
UTM: Zone-10 N4237561 E668815
Precision: NON-SPECIFIC
Symbol Type: POINT
Radius: 3/5 mile

Township: 05N
Range: 08E
Section: 23 Qtr XX
Meridian: M
Elevation: 250 ft

Comments

Distribution: VERNAL POOLS SOMEWHERE IN SECTION 23.
Ecological: NATURAL VERNAL POOLS.
Threat:
General: B. LYNCHI OBSERVED IN 1 OF 16 INSPECTED FEATURES. SUGNET RECORD #42. NO LEPIDURUS PACKARDI OBSERVED.
Owner/Manager: UNKNOWN

BRANCHINECTA LYNCHI (cont.)
VERNAL POOL FAIRY SHRIMP
Element Code: ICBRA03030

List Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Occurrence No. 180 Map Index:29088
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: JONES & STOKES ASSOC. 1993 (LIT)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: AREA AROUND RANCHO SECO LAKE, EAST OF RANCHO SECO POWER PLANT.

Dates Last Seen
Element: 1993-XX-XX
Site: 1993-05-21

Lat/Long: 38°20'22" / 121°05'40"
UTM: Zone-10 N4244980 E666537
Precision: NON-SPECIFIC
Symbol Type: POLYGON
Area: 1,688.8 ac

Township: 06N
Range: 08E
Section: XX Qtr XX
Meridian: M
Elevation: 250 ft

Comments
Distribution: AREA MAPPED IS THE PROJECT SITE. B. LYNCHI WAS FOUND IN VERNAL POOLS THROUGHOUT THE SITE WHERE MAXIMUM PONDING WAS 4 INCHES OR GREATER.
Ecological: PROJECT SITE IS CHARACTERIZED BY ROLLING HILLS OF GRASSLAND WITH SEASONAL WETLANDS INTERSPERSED IN LOW-LYING AREAS. THE LAKE IS SURROUNDED BY A LANDSCAPED PARK.
Threat: SITE IS PROPOSED FOR A GOLF COURSE.
General: B. LYNCHI WERE OBSERVED IN AN UNKNOWN NUMBER OF VERNAL POOLS. SURVEYS WERE CONDUCTED BETWEEN 8 FEBRUARY & 21 MAY 1993.
Owner/Manager: SMUD

Occurrence No. 213 Map Index:41665
Occ Rank: Excellent
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: GIBSON & SKORDAL 1998 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)*, CARBONDALE (3812141/495A)
County Summary: SACRAMENTO
SNA Summary:
Location: L.V. ISLAND PRESERVE, ~2 MILES NNE OF RANCHO SECO NUCLEAR POWER PLANT, ~1 MILE N OF HADSELVILLE AND 1.5 MILES N HWY 104.

Dates Last Seen
Element: 1998-02-11
Site: 1998-02-11

Lat/Long: 38°22'20" / 121°06'09"
UTM: Zone-10 N4248629 E665741
Precision: NON-SPECIFIC
Symbol Type: POLYGON
Area: 642.4 ac

Township: 06N
Range: 08E
Section: 16 Qtr XX
Meridian: M
Elevation: 150 ft

Comments
Distribution: PRESERVE IS APPROX. 307 ACRE VERNAL POOL PRESERVE AND MITIGATION AREA. VERNAL POOLS PRESENT, INCLUDE BOTH NATURAL AND CONSTRUCTED VERNAL POOLS.
Ecological: DOMINANT HABITATS CONSIST OF NON-NATIVE GRASSLAND, NORTHERN HARDPAN VERNAL POOLS, SEASONAL WET SWALES, AND EPHEMERAL AND INTERMITTENT STREAM CHANNELS. SURROUNDING AREA IS VINEYARDS.
Threat:
General: B. LYNCHI WAS OBSERVED IN BOTH NATURAL AND CONSTRUCTED VERNAL POOL HABITATS ON 8 JAN & 11 FEB 1998.
Owner/Manager: PVT-LAGUNA CREEK PARTNERSHIP

LINDERIELLA OCCIDENTALIS
CALIFORNIA LINDERIELLA
Element Code: ICBRA06010

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations
General: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 151 Map Index:29088
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: JONES & STOKES ASSOC. 1993 (LIT)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: AREA AROUND RANCHO SECO LAKE, EAST OF RANCHO SECO POWER PLANT.

Dates Last Seen
Element: 1993-XX-XX
Site: 1993-05-21

Lat/Long: 38°20'22" / 121°05'40"
UTM: Zone-10 N4244980 E666537
Precision: NON-SPECIFIC
Symbol Type: POLYGON
Area: 1,688.8 ac

Township: 06N
Range: 08E
Section: XX Qtr XX
Meridian: M
Elevation: 250 ft

Comments
Distribution: AREA MAPPED IS THE PROJECT SITE. LINDERIELLA WAS FOUND IN VERNAL POOLS THROUGHOUT THE SITE WHERE MAXIMUM PONDING WAS 4 INCHES OR GREATER.
Ecological: PROJECT SITE IS CHARACTERIZED BY ROLLING HILLS OF GRASSLAND WITH SEASONAL WETLANDS INTERSPERSED IN LOW-LYING AREAS. THE LAKE IS SURROUNDED BY A LANDSCAPED PARK.
Threat: SITE IS PROPOSED FOR A GOLF COURSE.
General: LINDERIELLA WERE OBSERVED IN VERNAL POOLS AND A STOCK POND. SURVEYS CONDUCTED BETWEEN 8 FEBRUARY & 21 MAY 1993.
Owner/Manager: SMUD

LEPIDURUS PACKARDI
VERNAL POOL TADPOLE SHRIMP
Element Code: ICBRA10010

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 83 Map Index:33679
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: SUGNET & ASSOC. 1993 (PERS)
Quad Summary: CLAY (3812132/495C)*, GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: BORDEN RANCH, NORTH AND SOUTH OF BORDEN ROAD, ABOUT 2.5 MILES SOUTHEAST OF CLAY.

Dates Last Seen
Element: 1999-02-12
Site: 1999-02-12

Lat/Long: 38°17'59" / 121°07'43"
UTM: Zone-10 N4240537 E663621
Precision: NON-SPECIFIC
Symbol Type: POLYGON
Area: 4,272.1 ac

Township: 05N
Range: 08E
Section: 08 Qtr XX
Meridian: M
Elevation: 180 ft

Comments

Distribution: 1993: 21 FEATURES INSPECTED IN SEC 7, 13 FEATURES INSPECTED IN SEC 8, & 10 FEATURES INSPECTED IN SEC 18. NO L. PACKARDI OBS IN SEC 18. 1997: L. PARKARDI FOUND IN POOLS IN EVERY SECTION. 1999: ONLY SEC 7 & 9 SURVEYED, L. PACKARDI FOUND.
Ecological: VERNAL POOL COMMUNITY DOMINATED BY PLAGIOBOTHRYS STIPITATUS, ELEOCHAN'S MACROSTACHYA, AND PSILOCARPHUS BREVISSIMUS.
Threat: AGRICULTURE
General: 1993: L. PACKARDI OBS IN 5 OF 21 FEATURES INSPECTED IN SEC 7 & IN 1 OF 13 FEATURES INSPECTED IN SEC 8. SUGNET RECORD #'S 118 & 119. 1997: 1000'S OBS IN POOLS THROUGHOUT. 1999: 1000'S OBS, BUT ONLY SURVEYED AREAS DESIGNATED AS PRESERVES.
Owner/Manager: PVT-AKT DEVELOPMENT

Occurrence No. 110 Map Index:29088
Occ Rank: Unknown
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: JONES & STOKES ASSOC. 1993 (LIT)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: AREA AROUND RANCHO SECO LAKE, EAST OF RANCHO SECO POWER PLANT.

Dates Last Seen
Element: 1993-XX-XX
Site: 1993-05-21

Lat/Long: 38°20'22" / 121°05'40"
UTM: Zone-10 N4244980 E666537
Precision: NON-SPECIFIC
Symbol Type: POLYGON
Area: 1,688.8 ac

Township: 06N
Range: 08E
Section: XX Qtr XX
Meridian: M
Elevation: 250 ft

Comments

Distribution: AREA MAPPED IS THE PROJECT SITE. LEPIDURUS PACKARDI WAS FOUND IN VERNAL POOLS THROUGHOUT THE SITE WHERE MAXIMUM PONDING WAS 4 INCHES OR GREATER.
Ecological: THE PROJECT SITE IS CHARACTERIZED BY ROLLING HILLS OF GRASSLAND WITH SEASONAL WETLANDS INTERSPERSED IN LOW-LYING AREAS. THE LAKE IS SURROUNDED BY A LANDSCAPED PARK.
Threat: SITE IS PROPOSED FOR A GOLF COURSE.
General: LEPIDURUS PACKARDI WERE OBSERVED IN VERNAL POOLS AND 1 STOCK POND. SURVEYS WERE CONDUCTED BETWEEN 8 FEBRUARY & 21 MAY 1993.
Owner/Manager: SMUD

LEGENERE LIMOSA
LEGENERE
Element Code: PDCAM0C010

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B
State: None	State: S2.2	R-E-D Code: 2-3-3

Habitat Associations
General: VERNAL POOLS. MANY HISTORICAL OCCURRENCES ARE EXTIRPATED.
Micro: IN BEDS OF VERNAL POOLS. 1-880M.

Occurrence No. 42 Map Index:12032
Occ Rank: Fair
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: WITHAM, C. & D. HICKSON 1995 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary: Arroyo Seco Mesa
Location: APPROX 0.55 MI ESE OF SOUTH END OF DAM AT RANCHO SECO LAKE, 0.15 MI E OF PAVED ACCESS ROAD.

Dates Last Seen
Element: 1995-06-15
Site: 1995-06-15

Lat/Long: 38°19'52" / 121°05'27"
UTM: Zone-10 N4244067 E666874
Precision: SPECIFIC
Symbol Type: POLYGON
Area: 3.6 ac

Township: 06N
Range: 08E
Section: 34 Qtr NW
Meridian: M
Elevation: 240 ft

Comments
Distribution: L. LIMOSA OBSERVED IN SOUTHERN POLYGON IN 1995. (MAPPED AS 2 SMALL POLYGONS WITH O. VISCIDA).
Ecological: VERNAL POOLS WITH ERYNGIUM VASEYI, ELEOCHARIS MACROSTACHYA, GLYCERIA DECLINATA, AND NAVARRETIA LEUCOCEPHALA. ORCUTTIA VISCIDA ALSO AT THIS SITE. TADPOLE SHRIM (LEPIDURUS PACKARDII) SEEN HERE IN 1995.
Threat: CATTLE GRAZING AND COMPETITION FROM GLYCERIA DECLINATA THREATEN.
General: UNKNOWN HOW MANY PLANTS SEEN IN 1995.
Owner/Manager: SMUD

GRATIOLA HETEROSEPALA
BOGGS LAKE HEDGE-HYSSOP
Element Code: PDSCR0R060

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 1B
State: Endangered	State: S3.1	R-E-D Code: 1-2-2

Habitat Associations
General: MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.
Micro: CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS 5-2400M.

Occurrence No. 56 Map Index:25897
Occ Rank: Excellent
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: CLIFTON, G. 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH; WATERSHED OF GOOSE CREEK. 0.75-0.95 MI SSE OF SUMMIT OF PEAK AT 212 FT ELEVATION.

Dates Last Seen
Element: 1990-04-20
Site: 1990-04-20

Lat/Long: 38°16'26" / 121°04'08"
UTM: Zone-10 N4237762 E668929
Precision: SPECIFIC
Symbol Type: POLYGON
Area: 9.3 ac

Township: 05N
Range: 08E
Section: 23 Qtr NE
Meridian: M
Elevation: 250 ft

Comments
Distribution:
Ecological: VERNAL POOL DOMINATED BY ALLOCARYA STIPITATA MICRANTHA, PSILOCARPHUS BREVISSIMUS, & NAVARRETIA LEUCOCEPHALA. ALSO ASSOCIATED W/ELEOCHARIS PALUSTRIS, LASTHENIA PLATYCARPHA, ISOETES ORCUTII & ERYNGIUM VASEYI. IN REDDING SERIES TERRACE SOILS.
Threat: GRAZING COULD THREATEN.
General: 4050 PLANTS IN 1990.
Owner/Manager: PVT

Occurrence No. 58 Map Index:26281
Occ Rank: Excellent
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: CLIFTON, G. 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH; WATERSHED OF GOOSE CREEK, 2.1 AIRMI S OF SACRAMENTO-SAN JOAQUIN COUNTY LINE.

Dates Last Seen
Element: 1990-05-06
Site: 1990-05-06

Lat/Long: 38°15'10" / 121°05'08"
UTM: Zone-10 N4235401 E667512
Precision: SPECIFIC
Symbol Type: POLYGON
Area: 9.3 ac

Township: 05N
Range: 08E
Section: 27 Qtr S
Meridian: M
Elevation: 230 ft

Comments
Distribution: ON BOTH SIDES OF UNNAMED ROAD.
Ecological: VERNAL POOL DOMINATED BY PSILOCARPHUS BREVISISSIMUS AND ALLOCARYA STIPITATA MICRANTHA. ALSO WITH GRATIOLA EBRACTEATA, ISOETES ORCUTTII, I. HOWELLII, LASTHENIA PLATYCARPHA, DOWNINGIA BICORNUTA, ETC. IN REDDING SERIES TERRACE SOILS.
Threat: GRAZING COULD THREATEN.
General: AT LEAST 1150 PLANTS IN 5 SUBPOPULATONS IN 1990.
Owner/Manager: PVT

Occurrence No. 59 Map Index:26278
Occ Rank: Excellent
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: BUCK, R. 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, WATERSHED OF GOOSE CREEK. APPROX 1.7 AIRMI W OF JCT HWY 88 AND AMADOR/SAN JOAQUIN COUNTY LINE ON TOPO.

Dates Last Seen
Element: 1990-05-25
Site: 1990-05-25

Lat/Long: 38°16'40" / 121°02'46"
UTM: Zone-10 N4238228 E670913
Precision: SPECIFIC
Symbol Type: POLYGON
Area: 9.1 ac

Township: 05N
Range: 08E
Section: 24 Qtr NE
Meridian: M
Elevation: 260 ft

Comments
Distribution:
Ecological: POOL DOMINATED BY PSILOCARPHUS BREVISSIMUS, ELEOCHARIS ACICULARIS, E. PALUSTRIS, ERYNGIUM VASEYI, ISOETES ORCUTTII, ETC. IN REDDING SERIES TERRACE SOILS.
Threat: GRAZING COULD THREATEN.
General: 500 PLANTS IN 1990.
Owner/Manager: PVT

GRATIOLA HETEROSEPALA (cont.)
BOGGS LAKE HEDGE-HYSSOP
Element Code: PDSCR0R060

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 1B
State: Endangered	State: S3.1	R-E-D Code: 1-2-2

Occurrence No. 60 Map Index:26279
Occ Rank: Excellent
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: BUCK, R. 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, WATERSHED OF GOOSE CREEK. 1.2 AIRMI ESE OF SUMMIT OF 212 FT PEAK ON TOPO.

Dates Last Seen
Element: 1990-05-25
Site: 1990-05-25

Lat/Long: 38°16'34" / 121°03'13"
UTM: Zone-10 N4238024 E670245
Precision: SPECIFIC
Symbol Type: POINT
Radius: 80 meters

Township: 05N
Range: 08E
Section: 24 Qtr NW
Meridian: M
Elevation: 270 ft

Comments
Distribution:
Ecological: POOL DOMINATED BY PSILOCARPHUS BREVISSIMUS.
Threat: GRAZING COULD THREATEN.
General: 50 PLANTS IN 1990.
Owner/Manager: PVT

Occurrence No. 61 Map Index:26280
Occ Rank: Excellent
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: BUCK, R. 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, WATERSHED OF GOOSE CREEK. APPROX 2.25 AIRMI W OF JCT HWY 88 AND SAN JOAQUIN/AMADOR COUNTY LINE.

Dates Last Seen
Element: 1990-05-25
Site: 1990-05-25

Lat/Long: 38°16'23" / 121°03'26"
UTM: Zone-10 N4237680 E669952
Precision: SPECIFIC
Symbol Type: POINT
Radius: 80 meters

Township: 05N
Range: 08E
Section: 24 Qtr NW
Meridian: M
Elevation: 270 ft

Comments
Distribution:
Ecological: POOL DOMINATED BY ALLOCARYA STIPITATA MICRANTHA, CRASSULA AQUATICA, & ISOETES ORCUTTII. REDDING SERIES TERRACE SOILS.
Threat: GRAZING COULD THREATEN.
General: 100 PLANTS IN 1990.
Owner/Manager: PVT

ORCUTTIA VISCIDA
SACRAMENTO ORCUTT GRASS
Element Code: PMPOA4G070

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B
State: Endangered	State: S1.1	R-E-D Code: 3-3-3

Habitat Associations
General: VERNAL POOLS. ENDEMIC TO SACRAMENTO COUNTY
Micro: 30-100M.

Occurrence No. 16 Map Index:12032
Occ Rank: Fair
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown
Main Source: WITHAM, C. & D. HICKSON 1995 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary: Arroyo Seco Mesa
Location: APPROX 0.55 MI ESE OF SOUTH END OF DAM AT RANCHO SECO LAKE, 0.15 MI E OF PAVED ACCESS ROAD.

Dates Last Seen
Element: 1995-06-15
Site: 1995-06-15

Lat/Long: 38°19'52" / 121°05'27"
UTM: Zone-10 N4244067 E666874
Precision: SPECIFIC
Symbol Type: POLYGON
Area: 3.6 ac

Township: 06N
Range: 08E
Section: 34 Qtr NW
Meridian: M
Elevation: 240 ft

Comments
Distribution: ORCUTTIA RESTRICTED TO SMALL, RELATIVELY BARREN AREA AT EASTERN END OF MAIN POOL IN 1986 & 1987. GRAPHICS REVISED IN 1995 TO REFLECT INFO FROM JONES AND STOKES ASSOC: PLANTS FOUND ON SMUD LANDS TO E OF WHERE PREVIOUSLY MAPPED.
Ecological: VERNAL POOLS W/ERYNGIUM VASEYI, ALLOCARYA STIPITATA MICRANTHA, DOWNINGIA BICORNUTA, ELEOCHARIS MACROSTACHYA. LEGENERE LIMOSA FOUND IN SOUTHERN POLYGON IN 1995. SURR BY ANNUAL GRASSLAND W/3 ISLANDS OF UPLAND HABITAT IN ITS CENTER.
Threat: CATTLE GRAZING AND COMPETITION FROM GLYCERIA DECLINATA THREATEN.
General: APPROXIMATELY 500 PLANTS IN 1986, 200 IN 1987, 300 IN N POLYGON IN 1995. TADPOLE SHRIMP (LEPIDURUS PACKARDII) CARAPACES FOUND IN BOTH POLYGONS IN 1995.
Owner/Manager: SMUD