APPENDIX J

BIOLOGICAL RESOURCES FIELD-LEVEL SURVEYS



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July 10, 2007

Susan Jones San Joaquin Valley Branch Chief US Fish and Wildlife Service 2800 Cottage Way, Room W-2605 Sacramento, CA 95825

Subject: Report of Findings from Wet Season Surveys for Federally-Listed Vernal Pool Branchiopods for the Ione Land Transfer and Casino Project in Amador County, California

INTRODUCTION

On behalf of the Ione Band of Miwok Indians (Tribe), Analytical Environmental Services (AES) has conducted the second set of wet season surveys for vernal pool branchiopods for the proposed Ione Land Transfer and Casino Project (hereafter "Project"). The purpose of the surveys was to determine presence/ absence of federally-listed vernal pool branchiopods [(i.e. vernal pool fairy shrimp (*Branchinecta lynchi*) and vernal pool tadpole shrimp (*Lepidurus packardi*)]. No federally-listed vernal pool branchiopods were observed during the first or second season of wet season surveys.

The surveys were conducted by permitted biologist Chris Sheehy with assistance by Stephen Stringer under the authority of Federal Fish and Wildlife Permit No. TE-799564-2 held by Sycamore Environmental Consultants, Inc. Mr. Stringer was previously authorized to independently conduct surveys under take permit TE-799564-2 and subsequent to the completion of the surveys he obtained an individual take permit (TE-141359-0). The surveys were conducted according to protocols outlined in the "Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods (Guidelines)." This document is the 90-Day Report of Findings required by Item VII of the Guidelines, which summarizes the results of the surveys. Jana Milliken authorized wet season surveys for the project site via email on January 4, 2007 (USFWS File # 1-1-07-PR-0399).

This report documents the results of surveys conducted in 2007, which are the second set of wet season surveys that have been conducted within a five year period on this project site completing the survey requirements as stated in the Guidelines. The first set of wet season surveys for the

project site were conducted by Keith Kwan and Peter Balfour of ECORP Consulting, Inc. (Recovery Permit No. TE-012973-2) in December through April of 2005 (**Attachment 5**). No listed branchiopods were observed during wet season surveys conducted in 2005.

The project site is located south of the town of Plymouth in Amador County within portions of Sections 11, 14 and 15 of Township 7 North, Range 10 East on the "Amador City, California" U.S. Geological Survey (USGS) 7.5-minute quadrangle map (**Attachment 1**). Vegetation communities on the project site include annual grassland, mixed chaparral, and blue oak woodland. Wetlands including cattle ponds, seasonal wetlands, vernal pools, wetland swales, and seeps occur throughout portions of the annual grassland on the project site.

METHODS

A total of eight surveys were conducted on January 5 and 19, February 2 and 15, March 2, 19, and 30, and April 13. Survey methodology followed "wet season sampling" protocols outlined in the Guidelines. All of the wetlands on the project site were visually inspected during each survey event and all inundated wetlands were dip netted. Required data were collected and documented on the attached U.S. Fish and Wildlife Service Vernal Pool Data Sheets for Wet Season Surveys (**Attachment 3**). Twelve wetland features (A, E, F, G, H, I, J, K, L, N, W, and X) were surveyed on the project site and are shown on **Attachment 2.** W and X, which are not shown on the figure, are located near K and B respectively. The naming of wetland features used in this report was revised from the 2005 report because the locations of wetlands U and V in the 2005 report were not shown on the vernal pool and seasonal wetland sampling location figure (Figure 2 of the 2005 report). It is assumed that U and V in the 2005 report correspond to W and X in the 2007 report.

AES was contacted by Jana Milliken in mid March and was informed that the Service was reviewing projects on an individual basis to determine whether or not to accept the results of wet season vernal pool surveys conducted this year due to lower than average rainfall. She informed AES that she needed to conduct a site visit to determine if fairy shrimp surveys could continue for the 2007 season. Stephen Stringer met with Jana Milliken onsite on March 16, 2007 and gave her a tour of the project site wetlands. During the onsite meeting, Jana Milliken gave AES verbal authorization to continue the surveys because the majority of the wetlands were still inundated.

DESCRIPTIONS OF WETLAND FEATURES SAMPLED

Wetland features A, J, K, and L are cattle ponds, which are a result of excavation and damming of swales to create impoundments suitable for stock watering. Cattle Pond A is located near the southwest corner of the property and is fed by two swales that capture runoff from nearby Highway 49 and the surrounding uplands. Sparse emergent vegetation occurs around the pond and includes water plantain (*Alisma* sp.) and narrow-leaf cattail (*Typha angustifolia*). Riparian

woodland surrounds part of the northern shore and the upstream swale feeding the pond. Several adult bullfrogs and chorus frogs were observed in this cattle pond during surveys. Cattle Pond J is located near the northern boundary of the property and is an impoundment that consists of open water that varies in depth throughout the season and a peripheral area that is saturated long enough through the wet season to support a thick herbaceous layer dominated by spikerush (*Eleocharis macrostachya*). Several bullfrog tadpoles, but no adults, were observed in this cattle pond during the surveys. Cattle Pond K is located in the northern half of the property near the center and is fed by a nearby seep. Little emergent or overhanging vegetation was observed. Several adult bullfrogs and chorus frogs were observed in this cattle pond during the surveys. Cattle pond L is located along the northeast boundary of the property and has sparse emergent vegetation consisting of narrow-leaf cattail and water plantain, but no overhanging vegetation. Several adult bullfrogs and chorus frogs were observed in this cattle pond during the surveys.

Wetlands G and H are two potential vernal pools that occur on the project site in the vicinity of the abandoned landing strip (**Attachment 1**). Plant species identified in the vernal pools at the time of the surveys included spikerush (*Eleocharis macrostachya*), Vasey's branching coyote thistle (*Eryngium castrense*), and pillwort (*Pilularia americana*). Chorus frog egg masses and tadpoles were observed in the vernal pools.

Six seasonal wetlands occur on the project site (Wetlands E, F, I, N, W, and X). Wetland E is located along the western boundary of the property adjacent to an intermittent stream. Plant species identified in the wetland at the time of the surveys included Dallis grass (Paspalum dilatatum), Bermuda grass (Cynodon dactylon), loosestrife hyssop (Lythrum hyssopifolium), and Himalayan blackberry (Rubus discolor). No amphibians were observed in Wetland E. Wetland F is a seasonal wetland that collects in a depression formed by the abandoned landing strip. Plant species identified in Wetland F at the time of the surveys included Vasey's branching coyote thistle, spikerush, and Carter's buttercup (Ranunculus bonariensis var. trisepalus). Chorus frog egg masses and tadpoles were observed in Wetland F. Wetland I is a seasonal wetland that is fed by seepage from cattle pond J. Plant species identified in Wetland I at the time of the surveys included spikerush and Baltic rush (Juncus balticus). No amphibians were observed in Wetland I. Wetland N is a seasonal wetland that collects in a depression formed by the abandoned landing strip. Plant species identified in Wetland N at the time of the surveys included Italian ryegrass, Vasey's branching coyote thistle, spikerush, and Carter's buttercup. No amphibians were observed in Wetland N. Wetlands W and X are small depressions that occur in the annual grassland. Plant species identified in Wetlands W and X at the time of the surveys included Italian ryegrass and curly dock (Rumex crispus). No amphibians were observed in Wetlands W and X.

RESULTS

Photos of the project site and representative wetland features are shown in **Attachment 4**. All of the site photos were taken by Stephen Stringer on February 23rd. During the 2007 wet season

surveys, all of the wetland features on the property were surveyed on eight separate occasions between January 5 and April 13. No federally-listed vernal pool branchiopods were observed on the project site. Although all of the wetlands on the project site were not inundated continuously for 120 days, the wetland features that provided the highest likelihood of supporting vernal pool branchiopods were inundated for a sufficient length of time for these species to hatch and complete a life cycle if they were present. This is evidenced by the fact that the wetland features onsite contained a high diversity of aquatic invertebrates (see data sheets in **Attachment 3**).

SUMMARY

Two full wet season surveys for federally-listed vernal pool branchiopods have been completed within a five year period for the Ione Land Transfer and Casino Project; the first wet season survey was completed in 2005 (**Attachment 5**) and the second was completed in 2007. No federally-listed vernal pool branchiopods were found on the project site. These two wet season surveys conducted within a 5-year period complete the requirements stated in the Guidelines for presence/ absence surveys for federally-listed vernal pool branchiopods. Please contact me if you have any questions.

Sincerely,

Stephen Stringer (Federal Fish and Wildlife Permit No. TE-141359-0) AES 1801 7th Street, Suite 100 Sacramento, CA 95814

Attachments:

Attachment 1: Project Site Location Map Attachment 2: Wetland Sampling Locations Attachment 3: Wet Season Survey Datasheets

Attachment 4: Site photos

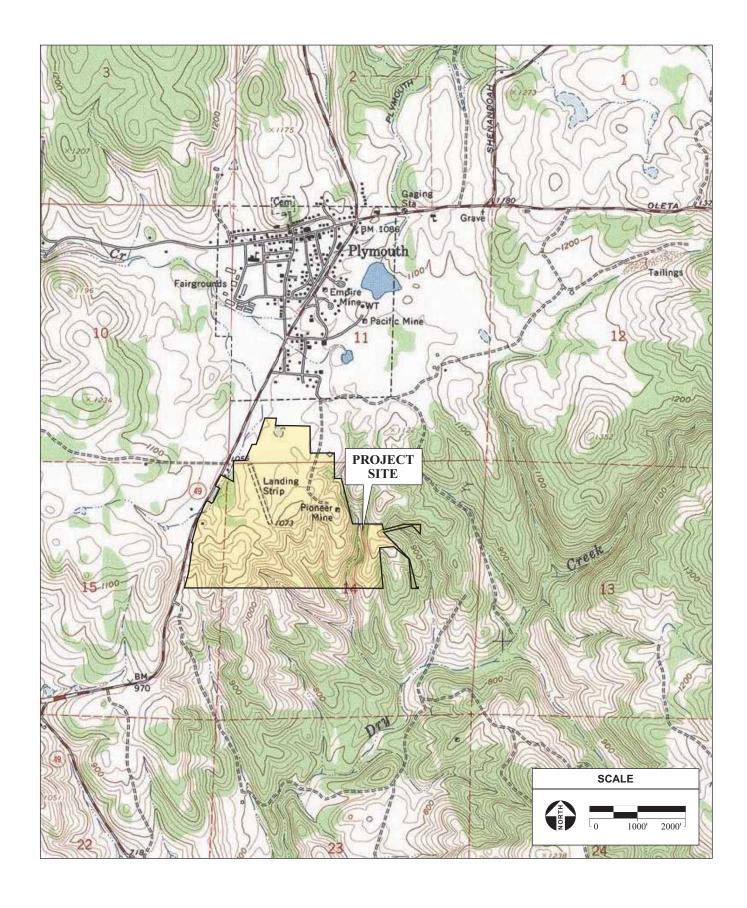
Attachment 5: Report of Findings Regarding Federally-Listed Branchiopods for Miwok Casino, Amador County, California. Prepared by ECORP Consulting, Inc. July 27, 2005

Copy:

David Kelly, US Fish and Wildlife Service Recovery Permit Coordinator Jeffery Little, Vice President, Sycamore Environmental Consultants, Inc.

Attachment 1

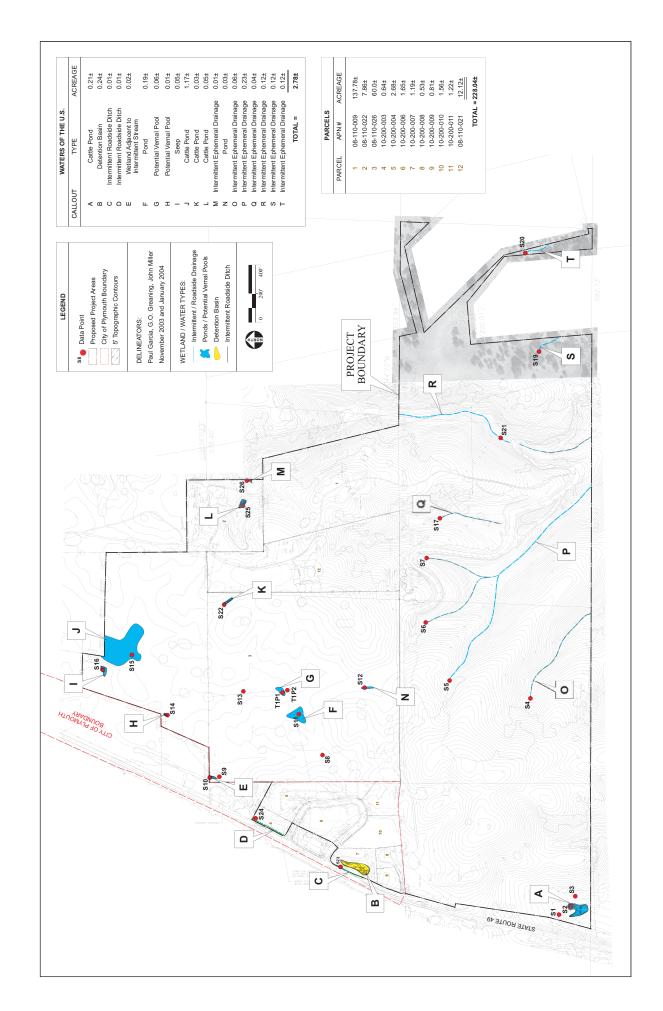
Project Site Location Map



Attachment 2

Wetland Sampling Locations

Ione Band of Miwok Indians Casino Project Wet Season Surveys / 203525



SOURCE: USGS Aerial Photograph, 8/16/1998; American Aerial Mapping, 2003; AES, 2007

Attachment 3

U.S. Fish and Wildlife Service Vernal Pool Data Sheets

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as part | t of the 90-day report: nox yes |
| Required color slides and/or photographs for | r the project site are included: no×_ yes |
| Date: <u>01 / 05 / 2007</u> Time: <u>10:49</u> C | ounty: Amazon Quad: Amazon Cir |
| Collector(s): CHRISTOPHER SHEERY + ST | EPHEN STRINGER Permit #: TE-799564-2 |
| Site/Project Name: Ions Casino | Pool #: |
| Township: 772 Range: Rio E | Pool #: # N W Section: 11, 14, 15 35° 27' 40" lat. 120° 55' 40" long. |
| Temperature: Water:5, | o °C |
| Pool Depth: at time of sampling: 37.0 cm | Surface Area: W L at time of sampling: 6.71 m x 13.71 m |
| estimated maximum: 41.0 cm | estimated maximum: 9,14 m x 16.76m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.4 Turbidity: (secchi di | sc depth) 42.0 cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no I | nsects: (adult or larvae) | | |
|-------------------|-----|---------------------|---------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | Yes | no CANADA LOGSE SEA | Belostomatidae: | yes | no |
| Other (specify) _ | | | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: nox_ yes |
| Required color slides and/or photographs for the project site are included: no _ x _ yes |
| Date: 01 / 05 / 2007 Time: 11:10 County: AMADOR Quad: AMADOR City |
| Collector(s): CHRISTOPHER SHEETY + STEPHEN STRINGER Permit #: TE-799564-2 |
| Site/Project Name: Zone Casino Pool #: Z |
| Site/Project Name: Tone Casino Pool #: T Township: Tal Range: Rio E Section: 11, 14, 15 38° 27' 40" lat. 120° 50' 40" long. |
| Temperature: Water: 7.5 °C Air: 1/.0 °C |
| Pool Depth: Surface Area: W L at time of sampling: 8.0 cm at time of sampling: 1.52 m |
| estimated maximum: 12.0 cm estimated maximum: 1.83 m x 3.05 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 6.9 Turbidity: (secchi disc depth)>600 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-------------------|-----|-------------------|----------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no CANADA LETSE ! | Selostomatidae: | yes | no |
| Other (specify) _ | | | Other (specify) | | |

Voucher Specimens

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<u>Species</u> # Individuals <u>Accession/Catalog #</u> Pool #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no × yes |
| Required color slides and/or photographs for the project site are included: no×_ yes |
| Date: 01 / 05 / 2007 Time: 11:30 County: Amazon Quad: Amazon Ciry |
| Collector(s): CHEISTOPHICA SHELLY + STEPHEN STRINGER Permit #: TE-799564-2 |
| Site/Project Name: Tone Casino Pool #: J |
| Site/Project Name: Tone Casino Pool #: J Township: 77N Range: Rio E Section: 11, 14, 15 35° 27' 40" lat 1220 50' 40" long. |
| Temperature: Water: 6.6 °C Air: /2.0 °C |
| Pool Depth: Surface Area: W L at time of sampling: 106.7 cm at time of sampling: 33.53 m x 45.72 m |
| estimated maximum: 183.0 cm estimated maximum: 45.72 m x 65.00 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 8.5 Turbidity: (secchi disc depth) /2.6 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: , CATTLE POOL (STRONG URINE + FELAL ODOR) |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no Ins | sects: (adult or larvae) | | |
|-------------------|--------|-------------------------|--------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | NO CANADA LIZERE SCAT | Belostomatidae: | yes | no |
| Other (specify) 4 | ASTROP | OA (EMPTY SHELLS) /10'S | Other (specify) | | |
| | Possia | ly Eyraulusip, | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

...

| Note: Please fill out the required information of | completely for each site visit. |
|---|--|
| This form is being submitted to serve as part of | of the 90-day report: no yes |
| Required color slides and/or photographs for t | he project site are included: no _ <u></u> yes |
| | unty: AMADOR Quad: AMADOR City |
| | STRINGER Permit #: TE- 799564-2 |
| Site/Project Name: Lone Casino | Pool #: |
| Township: 770 Range: RIDE | Section: 11, 14, 15 38°27' 40" lat. 120° 50' 40" long. |
| Temperature: Water: 2.0 | °C Air: 11.0 °C |
| Pool Depth: S at time of sampling: 107.0cm | t time of sampling: 7,62 m x 15,24 m |
| estimated maximum: 2/3.0 cm | stimated maximum: 18,29 m x 11,34 m |
| Habitat Condition: (circle where appropriate) | |
| undisturbed: ti | re tracks garbage discing/plowing |
| | attle horses sheep other Deep lands To Ray |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm D | Dissolved Oxygen:ppm or mg/l |
| pH: 8,2 Turbidity: (secchi disc | depth) > 60.0 cm or: clear to bottom X |
| Salinity:ppt or ppm T | otal Dissolved Solids (TDS):ppm |
| Notes: | |

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Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) |
|-----------------|-----|----|---|
| Conchostracans: | yes | no | Anisoptera: yes no |
| Copepods: | yes | no | Zygoptera: yes no |
| Ostracods | yes | no | Hydrophilidae: yes no Coleoptera ARV |
| Fish | yes | no | Hydrophilidae: yes no Colcoptera land. Dytiscidae: yes no 1 - Too South To |
| Frogs | yes | no | Corixidae: yes no |
| Salamanders | yes | no | Notonectidae: yes no |
| Waterfowl | yes | no | Belostomatidae: yes no |
| Other (specify) | • | | Other (specify) GERIORE (COMMON WATER STRIBEN) |
| | | | (HEMI PTERA) |
| | | | (۲) |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species |

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no×_ yes |
| Required color slides and/or photographs for the project site are included: no yes |
| Date: 01 / 05 / 2007 Time: 12:35 County: Amazon Quad: Amazon City |
| Collector(s): CHRISTOPHED SHEETY + STEPHEN STEINLER Permit #: TE-799564-2 |
| Site/Project Name: Tows Casind Pool #: 5 |
| Township: 771 Range: R 10 E Section: 11, 14, 15 38° 27' 40" lat. 120' 50' 40" long. |
| Temperature: Water: °C |
| Pool Depth: Surface Area: ω L at time of sampling: 29.0 cm at time of sampling: 14.33 m x 18.29 m |
| estimated maximum: 35.0 cm estimated maximum: 18.29 m x 21.34 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: Cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 7/8 Turbidity: (secchi disc depth) >60.0 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | (Yes | no <10 / 100 | 5m 11 30) | Insects | : (adult or larvae) | | |
|-----------------|------|--------------|-----------|---------|---------------------|-----|---------------|
| | yes | no (| T. D. / | • | Anisoptera: | yes | no |
| Copepods: | yes | no | | | Zygoptera: | yes | no |
| Ostracods | yes | no | | | Hydrophilidae: | yes | no Colepator |
| Fish | yes | no | | | Dytiscidae: | yes | no Coleoptent |
| Frogs | yes | no | | | Corixidae: | yes | no I.D. |
| Salamanders | yes | no | _ | | Notonectidae: | yes | no |
| Waterfowl | Yes | no CANAGA | GEELE S | CAT | Belostomatidae: | yes | no |
| Other (specify) | | | | | Other (specify) | | |
| | | | | | | | |

Voucher Specimens

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Species

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information completely for each site visit. | | | | | | |
|--|--|--|--|--|--|--|
| This form is being submitted to serve as part of the 90-day report: no× yes | | | | | | |
| Required color slides and/or photographs for | the project site are included: no _×_ yes | | | | | |
| Date: 01 / 05 / 2007 Time: 12:55 C | ounty: Amason Quad: Amason Ciry | | | | | |
| Collector(s): CHRISTOPHEN SHEERY + STEPH | EN STRINGER Permit #: TE - 799 564-2 | | | | | |
| Site/Project Name: Tons Casino | Pool #: <u></u> ★ | | | | | |
| Township: 772 Range: R 10 E | Section: 11, 14, 15 38° 27' 46" lat. 120° 50' 411' long. | | | | | |
| Temperature: Water: 7.7 | °C Air:°C | | | | | |
| Pool Depth: at time of sampling:63.ocm | Surface Area: W L at time of sampling: 7.62 m x 23.47 m | | | | | |
| estimated maximum: /83.0 cm | estimated maximum: 13.72 m x 36.58 m | | | | | |
| Habitat Condition: (circle where appropriate) |) | | | | | |
| | tire tracks garbage discing/plowing | | | | | |
| - ungrazed grazed: | cattle horses sheep other | | | | | |
| - land use of habitat: | | | | | | |
| (Optional) Water Chemistry Data | | | | | | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO | | | | | |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l | | | | | |
| pH: 7.9 Turbidity: (secchi dis | sc depth) 24.0 cm or: clear to bottom | | | | | |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm | | | | | |
| Notes: | | | | | | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no Insec | ts: (adult or larvae) | | | |
|-----------------|---------|-------------------------|-----------------------|--------------|-----------|--------|
| Conchostracans | : ves | NO -10'S (EMPTY SHELLS) | Anisoptera: | (yes) | no - 10's | ZAVSAL |
| Copepods: | yes | no | Zygoptera: | yes | no | |
| Ostracods | yes | no | Hydrophilidae: | YES | no - 1015 | Apolt |
| Fish | yes | no | Dytiscidae: | yes | no | |
| Frogs | VES | no - ((CHORUS FROG) | Corixidae: | ⊘es | no - 10's | APVIT |
| Salamanders | yes | no | Notonectidae: | ⊘ es⊃ | no - wis | ADUIT |
| Waterfowl | Ves | no Canada Leese Seat | Belostomatidae: | yes | no | |
| Other (specify) | LASTROP | 204 - 10'S | Other (specify) | | | |
| | | | | | | |

Voucher Specimens

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Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: nox yes |
| Required color slides and/or photographs for the project site are included: nox_ yes |
| Date: 01 / 05 / 2007 Time: 13:27 County: Amroon Quad: Amroon Ciry |
| Collector(s): CHRISTOPHER SHEETING + STEPHEN STRINGER Permit #: TE-799 564-2 |
| Site/Project Name: <u>Tone Casina</u> Pool#: F |
| Township: 17N Range: R10E Section: 11, 14, 15 38° 27' 40" lat. 120' 50' 40" long. |
| Temperature: Water: 7,9 °C Air: /0,0 °C |
| Pool Depth: Surface Area: W L at time of sampling: 67.0 cm at time of sampling: 18.29 m x 30.48 m |
| estimated maximum: 100,0 cm estimated maximum: 30.48 m x 54.82 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 7.6 Turbidity: (secchi disc depth) > 60.0 cm or: clear to bottom * |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | | ts: (adult or larvae) | | |
|-----------------|--------|---------------------------|-----------------------|-----|----|
| Conchostracans | : yes | NO - 100'S (EMPTY SHELLS) | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | (Ves) | NO CANADA GEESE SCAT | Belostomatidae: | yes | no |
| Other (specify) | LASTRO | PODA -10's (EMPTY SHEILS) | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species |

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no _x yes |
| Required color slides and/or photographs for the project site are included: no _x_ yes |
| Date: 01 05 2007 Time: 13:42 County: Amazon Quad: Amazon Cin |
| Collector(s): CHRISTOPHER SASSITY + STEPHEN STRINGEN Permit #: 12-799564- |
| Site/Project Name: Lous Casino Pool#: N |
| Township: 770 Range: 210 E Section: 11, 14, 15 35°27' 46" lat. 126° 59' 46" long. |
| Temperature: Water:°C Air:°C |
| Pool Depth: Surface Area: W L at time of sampling: 23,0 cm at time of sampling: 3.05 m x /2.19 m |
| estimated maximum: 30,0 cm estimated maximum: 6.10 m x 24.38 m |
| Habitat Condition: (circle where appropriate) |
| disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 7.5 Turbidity: (secchi disc depth) >60.0 cm or: clear to bottom K |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's) Anostracans: (note reproductive status) Notostracans: (note reproductive status) Species Observations (Optional): Cladocerans: Insects: (adult or larvae) yes no Conchostracans: yes Anisoptera: no yes no Copepods: Zygoptera: yes no yes no Ostracods Hydrophilidae: yes no yes no Fish Dytiscidae: yes no yes no Frogs Corixidae: yes no yes no Salamanders Notonectidae: yes no yes no

Belostomatidae:

yes

Other (specify) DIPTERA - () - LARVAS (TOU SMAIL TO

no

Voucher Specimens

Waterfowl

Other (specify)

yes

no

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no _x yes |
| Required color slides and/or photographs for the project site are included: no yes |
| Date: 01 / 05 / 2007 Time: 14:09 County: Anson Quad: Anson Ciry |
| Collector(s): CHRISTOPHEN SHEETING + STEPHEN GREINGER Permit #: TE - 799564-2 |
| Site/Project Name: Tone Casino Pool#: A |
| Township: 771 Range: Rin E Section: 11, 14, 15 $38^{\circ}27'40''$ lat. 120 si 40' long. |
| Temperature: Water: 7.5 °C Air: /2.5 °C |
| Pool Depth: Surface Area: ω ω at time of sampling: 22.86 m x 27.43 m |
| estimated maximum: 213.4 cm estimated maximum: 27.43 m x 30.48 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 3.5 Turbidity: (secchi disc depth) 33.0 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: DELO CON IN PONO / NOT FAIR SHRIMP HABITAT |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-------------------|-----|----|----------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) _ | | | Other (specify) | | |
| | | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u> # Individuals <u>Accession/Catalog #</u> Pool #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no yes |
| Required color slides and/or photographs for the project site are included: no× yes |
| Date: 01 / 05/2007 Time: 14:32 County: AMADOR Quad: AMADOR Ciry |
| Collector(s): CHEISTOPHINE SHEEKY + STEAMEN STRINGER Permit #: TE-799564-2 |
| Site/Project Name: Tone Casina Pool#: E |
| Township: 771 Range: Range: 8 Section: 11,14,15 38°27' 40" lat.120° 30' 40" long. |
| Temperature: Water: 13.6 °C Air: 13.5 °C |
| Pool Depth: Surface Area: W at time of sampling: 8.5 cm at time of sampling: 2.44 m x 3.05 m |
| estimated maximum: 10.0 cm estimated maximum: 3.66 m x 4.57 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 8.5 Turbidity: (secchi disc depth) >60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

| Species Observations: state none or estimate | æ # of individua | als present in term | ns of an order of |
|--|------------------|---------------------|-------------------|
| magnitude (e.g., 10's, 100's, 1000's) | | | |

Anostracans: (note reproductive status)

Notostracans: (note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-----------------|-----|----|----------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | - | | Other (specify) | - | |
| | | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no <u>×</u> yes |
| Required color slides and/or photographs for the project site are included: no _x _ yes |
| Date: 01 / 19 / 2007 Time: 09:59 County: AMADOR Quad: AMADOR Cit |
| Collector(s): CHRISTOPHEN STEPHEN STRINGER Permit #: TE - 799564- |
| Site/Project Name: Tone Casino Pool#: E |
| Township: 77N Range: R10 & Section: 11, 14, 15 38° 27' 40" lat. 120° 20' 40 long. |
| Temperature: Water:°C Air:8.0 °C |
| Pool Depth: Surface Area: W L at time of sampling: m x m |
| estimated maximum:m xm |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: BRY |

1

Note: Please fill out the required information completely for each site visit.

| Species Observations: state none or esti | imate # of individual | s present in terms o | of an order of |
|--|-----------------------|----------------------|----------------|
| magnitude (e.g., 10's, 100's, 1000's) |) | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| yes | no | Insects: (adult or larvae) | | |
|-----|--|---|---|---|
| yes | no | Anisoptera: | yes | no |
| yes | no | Zygoptera: | yes | no |
| yes | no | Hydrophilidae: | yes | no |
| yes | no | Dytiscidae: | yes | no |
| yes | no | Corixidae: | yes | no |
| yes | no | Notonectidae: | yes | no |
| yes | no | Belostomatidae: | yes | no |
| | | Other (specify) | | |
| | yes yes yes yes yes yes | yes no yes no yes no yes no yes no yes no | yes no Anisoptera: yes no Zygoptera: yes no Hydrophilidae: yes no Dytiscidae: yes no Corixidae: yes no Notonectidae: yes no Belostomatidae: | yes no Anisoptera: yes yes no Zygoptera: yes yes no Hydrophilidae: yes yes no Dytiscidae: yes yes no Corixidae: yes yes no Notonectidae: yes yes no Belostomatidae: yes |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _x _ yes |
| Required color slides and/or photographs for the project site are included: no _×_ yes |
| Date: 01 / 19 / 2007 Time: 10:10 County: Amsoon Quad: Amazon Ciry |
| Collector(s): CHAISTOPHEN SHEET + STEPHEN STRINGER Permit #: TE-799564-2 |
| Site/Project Name: Jone Casino Pool #: H |
| Township: $\sqrt{7}$ Range: R_{10} E Section: $11, 14, 15$ $\frac{8}{25^{\circ}27'}$ Ho" lat. $\frac{120^{\circ}20'}{40''}$ long. |
| Temperature: Water: 4.5 °C Air: 19.0 °C |
| Pool Depth: at time of sampling: 26.0 cm Surface Area: at time of sampling: 6.10 m x 10.67 m |
| estimated maximum: 41.5 cm estimated maximum: 9.14 m x 16.76 m |
| Habitat Condition: (circle where appropriate) |
| -undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheen other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 5.5 Turbidity: (secchi disc depth) > 60.0 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: - Pro 72 - 46 + 47 |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: ye | es r | no In | sects: (adult or larvae) | | |
|--------------------|-------|---------------------|--------------------------|-------|--------------|
| Conchostracans: ye | es r | 10 | Anisoptera: | yes | no |
| Copepods: | es r | 10 1000'5 | Zygoptera: | yes | no |
| Ostracods ye | es r | 10 | Hydrophilidae: | (VES) | no 1- Aport |
| Fish y | es r | 10 | Dytiscidae: | yes | no |
| Frogs ye | es r | 10 | Corixidae: | WES) | no 1 - April |
| • | | 10 | Notonectidae: | yes | no |
| | res r | 10 CANDON LOGES SCA | | yes | no |
| Other (specify) | | | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _× yes |
| Required color slides and/or photographs for the project site are included: no yes |
| Date: 01 / 19 / 2007 Time: 10:29 County: Amroon Quad: Amroon Ciry |
| Collector(s): CHRISTOPHEL SHEET + STEPHEN STRINGER Permit #: 12.799564-2 |
| Site/Project Name: Lane Casino Pool #: I |
| Township: 77N Range: Rio E Section: 11, 14, 15 35° 27' 40" lat. 120' 50' 440' long. |
| Temperature: Water: °C Air: °C |
| Pool Depth: Surface Area: at time of sampling:m xm |
| estimated maximum:m xm |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-----------------|--------|----|----------------------------|-----|----|
| Conchostracan | s: yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |
| | | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | completely for each site visit. |
|--|--|
| This form is being submitted to serve as part | of the 90-day report: no _×_ yes |
| Required color slides and/or photographs for | the project site are included: no×_ yes |
| Date: 01/19/2007Time: 40:35 Co | ounty: Amsoon Quad: Amsoon Co |
| Collector(s): CHRISTOPHER SHEERY + STE | PHEN STRINGER Permit #: TE-799 564-2 |
| Site/Project Name: Tone Casino | Pool #: <u></u> |
| Township: 773 Range: 2.25 | Section: <u>R1, 19, 15</u> 38° 27' 40" lat. 120' 20' 40' long. |
| Temperature: Water: 5.5 | °C Air: 22.0 °C |
| | Surface Area: W L at time of sampling: 22.86 m x 42.67 m |
| estimated maximum: 183.0 cm | estimated maximum: <u>45.72</u> m x <u>65.00</u> m |
| Habitat Condition: (circle where appropriate) |) |
| | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 9.0 Turbidity: (secchi dis | sc depth) 27.0 cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |
| · PHOTO - 48,49,50 | |
| · CATTLE POOL (STRONG URING S | mell) |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | Nes | no | 1000 15 | Insects: (adult | or larvae) | |
|-----------------|-----|----|-------------------|-----------------|--------------------|---------|
| Conchostracans: | yes | no | | Anisop | tera: yes | no |
| Copepods: | yes | no | | Zygopt | era: yes | no |
| Ostracods | yes | no | | Hydrop | hilidae: yes | no |
| Fish | yes | no | | Dytisci | dae: yes | no |
| Frogs | res | no | 10'S (BUILFROL TA | Corixid (جمهه م | lae: yes | no |
| Salamanders | yes | no | | Notone | ctidae: yes | no |
| Waterfowl | yes | no | CANADA LECSE S | Belosto | matidae: yes | no |
| Other (specify) | | | | Other (| specify) oli GocHA | 5TA (1) |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as par- | t of the 90-day report: no yes |
| Required color slides and/or photographs for | r the project site are included: no _×_ yes |
| Date: 01 / 19 / 2007 Time: 11:15 C | County: Amnoon Quad: Amnon City |
| Collector(s): CHRISTOPHEN SHEER-, + STEP | MEN STRINGER Permit #: TE-799564-2 |
| Site/Project Name: Tone Casino | Pool #: |
| | Section: 11,14,15 38° 27'40'lat.120'50'40'long. |
| Temperature: Water: | °C Air: 22.0 °C |
| Pool Depth: at time of sampling:cm | Surface Area: at time of sampling:m xm |
| estimated maximum:cm | estimated maximum:m xm |
| Habitat Condition: (circle where appropriate | *) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| (- ungrazed) grazed: | cattle horses sheep otherlight moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: Turbidity: (secchi di | sc depth) cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

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Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-----------------|-----|----|----------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no **_ yes |
| Required color slides and/or photographs for the project site are included: no×_ yes |
| Date: 01 / 19 / 2007 Time: 12:20 County: AMADOR Quad: AMADOR CIT |
| Collector(s): CHEISTOPHIN SHEET & STEPHEN STEINGER Permit #: TE - 799564-2 |
| Site/Project Name: Lowe Casing Pool#: 4 |
| Township: 77N Range: R10 E Section: 11, 14, 15 35° 27' 40" lat. 126° 570' 46" long. |
| Temperature: Water: 8.1 °C Air: 23.5 °C |
| Pool Depth: Surface Area: W L at time of sampling: 26.0 cm at time of sampling: 12.20 m x 15.24 m |
| estimated maximum: 3.5.0 cm estimated maximum: 18.25 m x 21.34 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: Cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 8.1 Turbidity: (secchi disc depth) >60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |
| PHOTO'S - 51,52,53 |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | (yes) | no | 10.7 | Insects | s: (adult or larvae) | | |
|------------------|-------|------|--------------|---------|----------------------|------------|--------|
| Conchostracans: | yes | no | | | Anisoptera: | yes | no |
| Copepods: | yes | no | | | Zygoptera: | yes | no |
| Ostracods | yes | no | | | Hydrophilidae: | yes | no |
| Fish | yes | no | | | Dytiscidae: | yes | no |
| Frogs | yes | no | | | Corixidae: | yes | no |
| Salamanders | yes | no | | | Notonectidae: | yes | no |
| Waterfowl | (Ve) | no (| CANADA LEESE | Scar | Belostomatidae: | <u>yes</u> | no |
| —Other (specify) | | | | | Other (specify) | Culicopas | (1018) |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information | n completely for each site visit. |
|--|--|
| This form is being submitted to serve as par | t of the 90-day report: no yes |
| Required color slides and/or photographs fo | r the project site are included: no×_ yes |
| Date: 01/19/2007 Time: 13:00 C | County: Anson Quad: Amson Ciry |
| Collector(s): CHRISTOPHER SHEET + STEPH | CN STRINGER Permit #: TE - 799 564-2 |
| Site/Project Name: Tows Casino | Pool #: |
| Township: 77 N Range: RisE | Pool #: |
| Temperature: Water: 7. | 8 °C Air: 23,5 °C |
| Pool Depth: at time of sampling: 60.0 cm | Surface Area: W L at time of sampling: 15.24 m x 23.43 m |
| estimated maximum: 1000 cm | estimated maximum: 30.48 m x 51.82 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed | cattle horses sheep other heavy |
| - land use of habitat: | . # |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 8.6 Turbidity: (secchi di | sc depth) > 60.0 cm or: clear to bottom _ × |
| Salinity :ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |
| PHOTOIS - 54,55,52,57 | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| yes | | ts: (adult or larvae) | | |
|-------|---------------------------------|---|--|---|
| ves | no 100's (EMPTY Smells) | Anisoptera: | yes | no |
| yes | no | Zygoptera: | yes | no |
| yes | no | Hydrophilidae: | yes | no |
| yes | no | Dytiscidae: | yes | no |
| yes | no | Corixidae: | yes | no |
| yes | no | Notonectidae: | yes | no |
| (yes) | no Cangea beest Scatt | Belostomatidae: | yes | no |
| | | Other (specify) _c. | sticions | - 1015 |
| | yes yes yes yes yes | yes no | yes no Zygoptera: yes no Hydrophilidae: yes no Dytiscidae: yes no Canta Geest Scat Belostomatidae: | yes no yes Yes Yes yes no Yes |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required informatio | n completely for e | each site visi | t. |
|---|--------------------------------------|------------------------|---|
| This form is being submitted to serve as par | t of the 90-day rep | ort: n | o _x yes |
| Required color slides and/or photographs fo | r the project site a | re included: | no <u></u> yes |
| Date: <u>@ /19 /207</u> Time: <u>/3:30</u> (| ounty: Amaoor | | Quad: Ampron Cir |
| Collector(s): CHRISTOPHEN CHEEKS & STE | TRINGER ! | Permit #: _ | 78-799564-2 |
| Site/Project Name: Lone Casine | | | Pool #:K |
| Township: 1721 Range: Rio E | Section: | 1, 15 38° 27 | ا الله الله الله الله الله الله الله ال |
| Temperature: Water: 7.5 | °C Ai | ir: <u>23.5</u> | _°C |
| Pool Depth: at time of sampling: 57.0 cm | Surface Area: at time of sampling | ng: <u>6.10</u> | _m x 22.86 m |
| estimated maximum: [83.0 cm | estimated maxim | ium: <u>/3.</u> 72 | 2_m x <u>36.59</u> m |
| Habitat Condition: (circle where appropriate | s) | | |
| - undisturbed disturbed: | tire tracks ga | arbage | discing/plowing |
| - ungrazed grazed: | cattle horses sh | neep other_ oderate | heavy |
| - land use of habitat: | | | |
| (Optional) Water Chemistry Data | | | |
| Alkalinity (total):ppm or mg/l | Conductiv | vity: | uMHO |
| Dissolved NH4:ppt or ppm | Dissolved Oxyge | en:pp | om or mg/l |
| pH: 4.0 Turbidity: (secchi di | sc depth) 35.0 cr | m <u>or</u> : clear t | to bottom |
| Salinity:ppt or ppm | Total Dissolved S | Solids (TDS |):ppm |
| Notes: | | | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: yes | | s: (adult or larvae) | | |
|-----------------------|----------------------------|----------------------|---------|----------|
| Conchostracans: (ves) | no - Empty Smells - (10's) | Anisoptera: | yes | no |
| Copepods: yes | no | Zygoptera: | yes | no |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs (yes) | 110-C HORUS (2-8) | Corixidae: | yes | no |
| Salamanders yes | no | Notonectidae: | yes | no |
| Waterfowl yes | NO CANADA GEESE SCAT | Belostomatidae: | yes | no |
| Other (specify) | | Other (specify) C+ | MONBAL | 101-5401 |
| | | در | 1141048 | - 1015 |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

Note: Please fill out the required information completely for each site visit. This form is being submitted to serve as part of the 90-day report: no × yes Required color slides and/or photographs for the project site are included: ____ no ** yes Date: 01 / 19 / 200 7 Time: 13:55 County: Amaoun Quad: Amaoon Ciry Collector(s): CHEISTOPHEN PHENN + STEPHEN STEINGER Permit #: 1E - 799564-2 Site/Project Name: Tone Casina Pool#: N Township: 17N Range: 210 & Section: 11,14,15 38° 27' 40" lat. 120" 50' 40" long. Water: °C Air: 23,5 °C Temperature: Pool Depth: Surface Area: at time of sampling: cm at time of sampling: m x m estimated maximum: cm estimated maximum: m x m Habitat Condition: (circle where appropriate) - undisturbed disturbed: tire tracks garbage discing/plowing cattle horses sheep other - ungrazed grazed: moderate light heavy - land use of habitat: (Optional) Water Chemistry Data Alkalinity (total): ppm or mg/l Conductivity: uMHO Dissolved NH₄: ppt or ppm Dissolved Oxygen: ___ ppm or mg/l Turbidity: (secchi disc depth) ____ cm or: clear to bottom Total Dissolved Solids (TDS): ____ppm Salinity: ppt or ppm Notes: ·DRY

| Note: Please fill out t | he req | uired infor | mation completely for each site visit. | | |
|---------------------------------------|----------|-------------|---|---------|----------|
| Species Observations magnitude (e.g., | | | stimate # of individuals present in terms of s) | an orde | er of |
| Anostracans: (note reproductive | ve stati | ıs) | | | |
| Notostracans: (note reproductiv | ve stati | ıs) | | | |
| Species Observations | (Optio | onal): | | | |
| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |
| Voucher Specimens | | | | | |
| Specimens shall be pracessioned. | reserve | ed accordin | ng to the standards of the institution in whi | ch they | will be |
| Species | # Ind | ividuals | Accession/Catalog # | Pool | <u>#</u> |

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no _×_ yes |
| Required color slides and/or photographs for the project site are included: no yes |
| Date: 01 / 19 / 2007 Time: 14:20 County: AMABOR Quad: AMAGOR Cir- |
| Collector(s): CHRISTOPHER SHEETS + STEPHEN STRINGER Permit #: TE - 799 564-2 |
| Site/Project Name: Font Casino Pool #: A |
| Township: 770 Range: Rio E Section: 11, 14, 15 38' 27' 40' lat. 120' 50' 45' long. |
| Temperature: Water: 7.0 °C Air: 23.5 °C |
| Pool Depth: Surface Area: W L at time of sampling: 137.0 cm at time of sampling: 21-34 m x 25.91 m |
| estimated maximum: 213,4 cm estimated maximum: 27.43 m x 30,48 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 8.5 Turbidity: (secchi disc depth) 30.0 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: Not a VERNAL POOL / PERENNIAL CATILO POND |
| · CATILE POND |

| Note: Please fil | il out the re | eauired | information | completely | for each | site visit. |
|--------------------|----------------|---------|-------------|------------|----------|-------------|
| 11000 1 2 24000 11 | II O WE TITO X | | | . + + | YAT | ATEC ATOTES |

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-------------------|-----|----|----------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) _ | | | Other (specify) | | |
| | | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no _×_ yes |
| Required color slides and/or photographs for the project site are included: no _ × _ yes |
| Date: 02 / 02 / 2017 Time: 10:01 County: Amonon Quad: Amonon Ciry |
| Collector(s): CHRISTOPHER SHEET + STEPHEN STRINGER Permit #: TE-799564-2 |
| Site/Project Name: FONE CASINO Pool #: E |
| Site/Project Name: FONE CASINO Pool #: E Township: 77N Range: RIO E Section: 11,14,15 35° 27' 46" lat. 120° 75' 40° long. |
| Temperature: Water:°C Air: _/3.0 °C |
| Pool Depth: Surface Area: W L at time of sampling: cm at time of sampling: m x m |
| estimated maximum:m xm |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |
| · DRY |

Note: Please fill out the required information completely for each site visit.

| Species Observations magnitude (e.g., | | | nate # of individuals present in terms of | an orde | er of |
|---------------------------------------|----------|--------|---|---------|-------|
| Anostracans: (note reproductiv | ve statı | ıs) | | | |
| Notostracans: (note reproductive | ve stati | ıs) | | | |
| Species Observations | (Optio | onal): | | | |
| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
| Conchostracans: | • | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera; | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |

Individuals Accession/Catalog # **Species** Pool#

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no yes |
| Required color slides and/or photographs for the project site are included: no _×_ yes |
| Date: 02 / 02 / 2027 Time: 10:23 County: Amason Quad: Amason Cir |
| Collector(s): CHAUSTOPHOL SHOOMY + STEPHEN STRINGER Permit #: 1E-799564-2 |
| Site/Project Name: LONE CASINO Pool #: 1/ |
| Township: $\overline{1 \neq N}$ Range: $R_{10} \in E$ Section: $11, 14, 15 = 28^{\circ} 27^{\circ} 40^{\circ}$ lat. $126^{\circ} 27^{\circ} 40^{\circ}$ long. |
| Temperature: Water: _/0.2 °C Air: _/3.0 °C |
| Pool Depth: Surface Area: |
| estimated maximum: 41.0 cm estimated maximum: 9.14 m x 16.76 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 7.4 Turbidity: (secchi disc depth) >60 cm or: clear to bottom × |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | ves | no loo's In | sects: (adult or larvae) | |
|-----------------|--------|--------------------|--------------------------|------------------|
| Conchostracans: | yes | no | Anisoptera: | yes no |
| Copepods: | (PES) | no /000°S | Zygoptera: | yes no |
| Ostracods | yes | no | Hydrophilidae: | VES no O-Abult |
| Fish | yes | no | Dytiscidae: | yes no |
| Frogs | yes | no | Corixidae: | yes no |
| Salamanders | yes | no | Notonectidae: | yes no |
| Waterfowl | VED | no Compos Goese Se | | yes no |
| Other (specify) | PLATYH | 2 001 - 10013 | Other (specify) | -ulieinas -100's |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no yes |
| Required color slides and/or photographs for the project site are included: no _×_ yes |
| Date: 02 / 02 / 2007 Time: 10:36 County: Amaoon Quad: Amaoon Ciry |
| Collector(s): CHRISTOPHER SHEET + STEPHER STRINGER Permit #: 1E-799524-2 |
| Site/Project Name: Fool #: I |
| Township: 770 Range: R10 E Section: 11, 14, 15 38° 27' 40" lat. 120" 50'40" long. |
| Temperature: Water: °C Air: _/3.0 °C |
| Pool Depth: Surface Area: W L at time of sampling:m xm |
| estimated maximum:m xm |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |
| . DRY |

| Note: Please fill out the required information completely for | r each site | : visit |
|---|-------------|---------|
|---|-------------|---------|

| Species Observations: state none or estim | ate # of individuals | s present in terms o | f an order of |
|---|----------------------|----------------------|---------------|
| magnitude (e.g., 10's, 100's, 1000's) | | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | |
|-----------------|-----|----|----------------------------|----|
| Conchostracans: | yes | no | Anisoptera: yes | no |
| Copepods: | yes | no | Zygoptera: yes | no |
| Ostracods | yes | no | Hydrophilidae: yes | no |
| Fish | yes | no | Dytiscidae: yes | no |
| Frogs | yes | no | Corixidae: yes | no |
| Salamanders | yes | no | Notonectidae: yes | no |
| Waterfowl | yes | no | Belostomatidae: yes | no |
| Other (specify) | | | Other (specify) | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species |

Individuals

Accession/Catalog #

| Note: Please fill out the required information | completely for each site visit. | | | | | | |
|--|---|--|--|--|--|--|--|
| This form is being submitted to serve as part of the 90-day report: no yes | | | | | | | |
| Required color slides and/or photographs for | the project site are included: no yes | | | | | | |
| Date: 02 / 02 / 2007 Time: 10:48 Co | Ounty: AMSOON Quad: AMSOON C.T. STRINGER Permit #: TE-799564-2 | | | | | | |
| Collector(s): CHAISTOPHER SHEETING + STEPH | EN STRINGER Permit #: 15-799564-2 | | | | | | |
| Site/Project Name: FONE CASINO | Pool #: | | | | | | |
| Township: 77N Range: 210E | Pool #: | | | | | | |
| Temperature: Water: 12.0 | °C Air: <u>/3. ∂</u> °C | | | | | | |
| Pool Depth: at time of sampling: 74.0cm | Surface Area: W L at time of sampling: 18.28 m x 30.48 m | | | | | | |
| estimated maximum: //83_cm | estimated maximum: 45-72 m x 65.00 m | | | | | | |
| Habitat Condition: (circle where appropriate) | | | | | | | |
| | tire tracks garbage discing/plowing | | | | | | |
| - ungrazed grazed: | eattle horses sheep otherlight moderate heavy | | | | | | |
| - land use of habitat: | | | | | | | |
| (Optional) Water Chemistry Data | | | | | | | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO | | | | | | |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l | | | | | | |
| pH: 7,7 Turbidity: (secchi dis | c depth) 38.0 cm or: clear to bottom | | | | | | |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm | | | | | | |
| Notes: | | | | | | | |
| - PHOTO'S 1-3 (FREO 6) | | | | | | | |
| · CATTLE POND (URINE SMEIL) | , | | | | | | |
| S O Hee Formen (Sava | ARCA SERARATE B. Device | | | | | | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | WED | no | 1000' 5 | Insects: (adult or larvae) | |
|-----------------|------|----|----------------|----------------------------|-------------------|
| Conchostracans | yes | no | | Anisoptera: | yes no |
| Copepods: | (ES) | no | 10001 3 | Zygoptera: | yes no |
| Ostracods | yes | no | | Hydrophilidae: | yes no |
| Fish | yes | no | | Dytiscidae: | yes no |
| Frogs | yes) | no | 10"5 | Corixidae: | yes no |
| Salamanders | yes | no | | Notonectidae: | yes no |
| Waterfowl | res | no | CAUMON GEESE S | Belostomatidae: | yes no |
| Other (specify) | | | | Other (specify) | Culticions - 10'S |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as part | of the 90-day report: no _× yes |
| Required color slides and/or photographs for | r the project site are included: no _×_ yes |
| Date: 02 / 02 / 2007 Time: //:/8 C | ounty: Amsoon Quad: Amsoon Ciry |
| Collector(s): CHRISTOPHER VINEERY + STEPHE | EN STRINGER_ Permit #: 12-799564-2 |
| Site/Project Name: Ions Casino | Pool#: 4 |
| Township: 772 Range: Range | Section: 11,14,15 35° 27' 46" lat. 120° 30 40 long. |
| Temperature: Water: | °C |
| Pool Depth: at time of sampling:cm | Surface Area: ω μ at time of sampling: μ μ μ μ |
| estimated maximum:cm | estimated maximum:m xm |
| Habitat Condition: (circle where appropriate |) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: Turbidity: (secchi di | sc depth)cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

| ote: Please fill out the required information completely for each site visit. |
|---|
| |

| Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's) | | | | | |
|---|----------|-------------------|---|---------|---------|
| Anostracans: (note reproductiv | ve statu | ıs) | | | |
| Notostracans: (note reproductiv | ve statu | ıs) | | | |
| Species Observations | (Optio | onal): | | | |
| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl Other (specify) | yes | no | Belostomatidae: Other (specify) | yes | no |
| Voucher Specimens | | | | | |
| Specimens shall be praccessioned. | reserve | d accordi | ng to the standards of the institution in whi | ch they | will be |
| Species | # Ind | iv <u>id</u> uals | Accession/Catalog # | Pool | # |

| Note: Please fill out the required information c | ompletely for each site visit. |
|--|---|
| This form is being submitted to serve as part of | f the 90-day report: no _× yes |
| Required color slides and/or photographs for the | ne project site are included: no× yes |
| | nty: Amador Quad: Amadon City |
| Collector(s): Creisropher Sies + Sies | MEN STEINLEN Permit #: 1E-799564-2 |
| Site/Project Name: Tone Casino | Pool #: _K N W Section: _11, 14, 15 38° 27' 44" lat. 122' 52' 43" long. |
| Township: 17N Range: Rio E | الا کی ا |
| Temperature: Water: 9,8 | _°C Air:°C |
| Pool Depth: St at time of sampling:cm at | time of sampling: 4.57 m x 21.34 m |
| estimated maximum: 183.0 cm es | timated maximum: 13.72 m x 36,58 m |
| Habitat Condition: (circle where appropriate) | |
| - undisturbed disturbed: tin | re tracks garbage discing/plowing |
| - ungrazed grazed: ca | ttle horses sheep other |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm D | issolved Oxygen:ppm or mg/l |
| pH: 3.6 Turbidity: (secchi disc | depth) 23.0 cm or: clear to bottom |
| Salinity:ppt or ppm To | otal Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | ves | no | 1000 4 8 | In | sects: (adult or larvae) |) | |
|---|-------|----|----------|--------------|--------------------------|-------------|-----------------|
| Conchostracans | : yes | no | - Empoy | SHAILI + SMI | Anisoptera: | yes | no |
| Copepods: | res | | 10001 \$ | - 10015 | Zygoptera: | ye s | no |
| Ostracods | yes | no | | | Hydrophilidae: | res | 10 (2) - ABUIES |
| Fish | yes | no | | | Dytiscidae: | yes | по |
| Frogs | yes | no | | | Corixidae: | yes | no |
| Salamanders | yes | no | | | Notonectidae: | yes | no |
| Waterfowl | (Yes) | no | CANADA | Liesse Scar | Belostomatidae: | yes | no |
| Other (specify) | | | | | Other (specify)_ | culicion | <u>&</u> |
| <u>, </u> | | | | | CHAOBORIDAE | - PHANTON | Mious -(1) |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information | n completely for each site visit. |
|--|--|
| This form is being submitted to serve as part | t of the 90-day report: no×_ yes |
| Required color slides and/or photographs for | r the project site are included: no yes |
| | ounty: Amanon Quad: Amanon Cir- |
| Collector(s): CHRISTOPHER SUESSEY + STAP | 400 STRINLOR Permit #: 75-799564-2 |
| Site/Project Name: Tone Casins | Pool #: |
| Township: 172 Range: Rio E | Pool #: 5 N Section: 11, 14, 15 35" 27' 40" lat. 120' 50'40" long. |
| Temperature: Water: 13.7 | °C Air: <u>2010</u> °C |
| Pool Depth: at time of sampling: 24.0 cm | Surface Area: W L at time of sampling: 10.66 m x 13.72 m |
| estimated maximum: 35, o cm | estimated maximum: /8,29 m x 21.34 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | Cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 8.1 Turbidity: (secchi di | sc depth) >60 cm or: clear to bottom 🗡 |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | ves | NO 1000 's | Insects: (adult or larvae) | | | |
|-------------------|-----------|------------|----------------------------|-------|----|----------|
| Conchostracans: | yes | no | Anisoptera: | yes | no | |
| Copepods: | res | no 1000 's | Zygoptera: | yes | no | |
| Ostracods | yes | no | Hydrophilidae: | yes | no | |
| Fish | yes | no | Dytiscidae: | yes | no | |
| Frogs | yes | no | Corixidae: | (yes) | no | 7.54A -1 |
| Salamanders | yes | no | Notonectidae: | yes | no | |
| Waterfowl | yes | no | Belostomatidae: | yes | no | |
| Other (specify) A | MPNI PODA | - 100°S | Other (specify) | | | |
| | • • | | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please IIII out the required information completely for each site visit. | | | | | | | |
|---|---|--|--|--|--|--|--|
| This form is being submitted to serve as part of the 90-day report: no _ × _ yes | | | | | | | |
| Required color slides and/or photographs for the project site are included: no× yes | | | | | | | |
| Date: 02 / 02 / 2007 Time: 13:10 County: Amoon Quad: Amoon Cir- | | | | | | | |
| Collector(s): CHEISTOPHON SHEET + ST. | EPHON STRINGER Permit #: 15 - 799564-2 | | | | | | |
| Site/Project Name: Casind | Pool #: _ F | | | | | | |
| Township: 77N Range: Range | Pool #: | | | | | | |
| Temperature: Water: 7. | | | | | | | |
| Pool Depth: at time of sampling:cm | Surface Area: ω L at time of sampling: 13.72 m x 25.91 m | | | | | | |
| estimated maximum: 10010 cm | estimated maximum: 30.48 m x 57.82 m | | | | | | |
| Habitat Condition: (circle where appropriate | e) · | | | | | | |
| - undisturbed disturbed: | tire tracks garbage discing/plowing | | | | | | |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy | | | | | | |
| - land use of habitat: | | | | | | | |
| (Optional) Water Chemistry Data | | | | | | | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO | | | | | | |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l | | | | | | |
| pH: 8, / Turbidity: (secchi d | isc depth) > 60.0 cm or: clear to bottom × | | | | | | |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm | | | | | | |
| Notes: | | | | | | | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: Ves | no 1000 3 | Insects: (adult or larvae) | |
|---------------------|---------------------|----------------------------|----------------------|
| Conchostracans: yes | no | Anisoptera: ye | es no |
| Copepods: yes | د' وهور 0n | Zygoptera: ye | es no |
| Ostracods yes | no | Hydrophilidae: ye | es no |
| Fish yes | no | Dytiscidae: ye | |
| Frogs yes | no | Corixidae: Ve | 27140A - 2'01 On (2) |
| Salamanders yes | no | Notonectidae: | 71120A-(1) On (E |
| Waterfowl yes | no | Belostomatidae: ye | es no |
| Other (specify) | collia (planta art) | Other (specify) | S) nAIS |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

Note: Please fill out the required information completely for each site visit. This form is being submitted to serve as part of the 90-day report: no × yes Required color slides and/or photographs for the project site are included: no \vee yes Date: 02 / 02 / 2007 Time: 13:20 County: Amoun Quad: Amoun City Collector(s): CHEISTOPINON STEERS STEINGEN Permit #: TE-799524-2 Site/Project Name: \overline{Lone} Casino Pool#: NTownship: $\overline{I7N}$ Range: Range: Range: Range: Section: Range: RangeWater: _____ °C Air: _24.5 °C Temperature: Pool Depth: Surface Area: at time of sampling: cm at time of sampling: m x m estimated maximum: ____cm estimated maximum: ___ m x ___ m Habitat Condition: (circle where appropriate) - undisturbed disturbed: tire tracks garbage discing/plowing cattle horses sheep other - ungrazed grazed: moderate heavy - land use of habitat: (Optional) Water Chemistry Data Alkalinity (total): ppm or mg/l Conductivity: uMHO Dissolved NH₄: ppt or ppm Dissolved Oxygen: ppm or mg/l pH: Turbidity: (secchi disc depth) cm or; clear to bottom Salinity: _____ppt or ppm Total Dissolved Solids (TDS): ppm Notes: - DRY

Note: Please fill out the required information completely for each site visit.

| Species Observations: s | tate none or e | stimate # of | individuals | present in term | ns of an order of |
|-------------------------|-----------------|--------------|-------------|-----------------|-------------------|
| magnitude (e.g., 10 | 's, 100's, 1000 | 's) | | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-----------------|-----|----|----------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | _ Other (specify) | | |
| | | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no _× yes |
| Required color slides and/or photographs for the project site are included: no yes |
| Date: 02 / 02 / 2007 Time: 13:47 County: Amsoon Quad: Amsoon City |
| Collector(s): CHRISTOPHEN SHEET + STEPHEN STRINGER Permit #: TE-799564-2 |
| Site/Project Name: \(\overline{\mathcal{I}_{\sigma} \overline{\mathcal{L}_{\sigma}} \) \(\overline{\mathcal{L}_{\sigma} \overline{\mathcal{L}_{\sigma}}} \) \(\overline{\mathcal{L}_{\sigma}} \) \(\overline{\mathcal{L}_{ |
| Township: 17 Range: Range: Root Section: 11,14, 15 38 27 40" lat. 120" 30 40" long. |
| Temperature: Water: 7.0 °C Air: 25.0 °C |
| Pool Depth: Surface Area: W L at time of sampling: 122.0 cm at time of sampling: 19.50 m x 22.86 m |
| estimated maximum: 213.4 cm estimated maximum: 27.43 m x 36.48 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 8-5 Turbidity: (secchi disc depth) 30.0 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: NOT A VERNAL POOL / PERENNIAL |

Note: Please fill out the required information completely for each site visit.

| Species Observations: state non- | e or estimate # o | of individuals | present in te | rms of an o | rder of |
|----------------------------------|-------------------|----------------|---------------|-------------|---------|
| magnitude (e.g., 10's, 100's, | 1000's) | | | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|---|-----|----|----------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |
| • | | | - | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | t of the 90-day report: no _x yes |
| Required color slides and/or photographs fo | r the project site are included: no X yes |
| Date: 02 / 15 / 2007 Time: 08:03 C | County: Amaoon City |
| Collector(s): CHRISTOPHER SHEEN, | Permit #: 1E - 799564-2 |
| Site/Project Name: Tone Casino | Pool #: _ E |
| Township: 77N Range: RIDE | Pool #: E N Section: 11,14, 15 38° 27' 46" lat.126° 50'44 long. |
| | °C Air: <u>/0.0</u> °C |
| Pool Depth: at time of sampling: 9.0 cm | Surface Area: W L at time of sampling: 2.44 m x 3.05 m |
| estimated maximum: _10.0_cm | estimated maximum: 3.66 m x 4.57 m |
| Habitat Condition: (circle where appropriate |) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 8.0 Turbidity: (secchi di | sc depth) >60.0cm or: clear to bottom × |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

| Species Observations: state none of | or estimate # of individua | als present in terms | of an order of |
|-------------------------------------|----------------------------|----------------------|----------------|
| magnitude (e.g., 10's, 100's, 10 | 000's) | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-------------------|-----|----|----------------------------|-----|----|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) _ | | | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as part | t of the 90-day report: no yes |
| Required color slides and/or photographs for | r the project site are included: no _X _yes |
| | County: Amapon Cit |
| Collector(s): CHRYSTOPHER SHEELT | Permit #: 75 - 799564-2 |
| Site/Project Name: _ I ONE CASIND | Pool #: |
| Township: 77N Range: Range | Section: 11, 14, 15 35°27'40" lat. 120° 20'40" long. |
| Temperature: Water: 7. | 8 °C Air: <u>/0.0</u> °C |
| Pool Depth: at time of sampling: 39.0 cm | Surface Area: W L at time of sampling: 7.62 m x 15.24 m |
| estimated maximum: 4/1.0_cm | estimated maximum: 9.14 m x 11.76 m |
| Habitat Condition: (circle where appropriate |) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.3 Turbidity: (secchi di | sc depth) >60.0 cm or: clear to bottom X |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note; Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no 1000's | Insects: (adult or larvae) | | |
|-----------------|--------|-----------|----------------------------|------|--------|
| Conchostracan | s: yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no 100'5 | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |
| | | | HYDRACARINA - | -0 (| 40011) |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each site visit. |
|--|--|
| This form is being submitted to serve as par | t of the 90-day report: no _×_ yes |
| Required color slides and/or photographs fo | r the project site are included: no _x _yes |
| Date: 02 / 15 / 2007 Time: 09:20 C | County: Amazor Quad: Amazor C, Fu |
| | Permit #: 1 & - 799564-2 |
| Site/Project Name: Casino | Pool #: |
| Township: 77N Range: Rose | Section: 11, 14, 15 33°27'40" lat. 122° 55'40" long. |
| Temperature: Water: 9.1 | °C |
| Pool Depth: at time of sampling: _9,5 _cm | Surface Area: W L at time of sampling: 1.52 m x 2.44 m |
| estimated maximum: /2-0_cm | estimated maximum: 1.93 m x 3.05 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.6 Turbidity: (secchi di | sc depth) >6 9.0 cm or: clear to bottom × |
| Salinity :ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: - Prop → # 2 . # 3. # 9 | |

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Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes no | 1400'5 | Insects: (adult or larvae) | | |
|-------------------|--------|--------|----------------------------|--------|----------------------------|
| Conchostracans: y | yes no | | Anisoptera: | yes | no |
| Copepods: | yes no | 108'3 | Zygoptera: | yes | no |
| Ostracods y | yes no | | Hydrophilidae: | yes | no |
| Fish y | yes no | | Dytiscidae: | yes | no |
| Frogs | yes no | | Corixidae: | yes | no |
| Salamanders y | yes no | | Notonectidae: | yes | no |
| Waterfowl y | yes no | | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |
| | | | · Coleopiens - | LAQUES | (TOO STONE TO ID.) -> () |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no × yes |
| Required color slides and/or photographs for the project site are included: no yes |
| Date: 02 / 15 / 2007 Time: 09:55. County: American Quad: American Cr |
| Collector(s): CHRISTOPHA SHEETY Permit #: 76-799564-2 |
| Site/Project Name: Pool #: |
| Township: 72N Range: 210 E Section: 11, 14, 15 38° 27' 46' lat. 120° 50 '46' long. |
| Temperature: Water: 11.3 °C Air: 15.0 °C |
| Pool Depth: Surface Area: W L at time of sampling: 152.0 cm at time of sampling: 36.58 m x 60.96 m |
| estimated maximum: 183.0 cm estimated maximum: 45.72 m x 65.00 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 7.7 Turbidity: (secchi disc depth) 31.0 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: . Carris Poso |
| · Provos #5, #6, #7, #8, #9, #10, #11, #12, #13, #14, #15 |

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Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: Yes | UO 1000, 2 | Insects: (adult or larvae) | | | |
|---------------------------|------------|----------------------------|----------|---------|---------|
| Conchostracans: yes | no | Anisoptera: | yes | no | |
| Copepods: \checkmark ES | no loop, t | Zygoptera: | yes | داه، no | (hours |
| Ostracods yes | no | Hydrophilidae: | yes | no | |
| Fish yes | no | Dytiscidae: | yes | no | |
| Frogs (yes) | no 100's | Corixidae: | yes | no | |
| Salamanders yes | no | Notonectidae: | yes | no | |
| Waterfowl yes | no | Belostomatidae: | yes | no | |
| Other (specify) Canada | GOESE SLAT | Other (specify) | | | |
| | | · Culicions -10 | 10-1 (A | revno) | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

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| Note: Please fill out the required informat | ion completely for each site visit. |
|---|--|
| This form is being submitted to serve as p | art of the 90-day report: no _X yes |
| Required color slides and/or photographs | for the project site are included: no yes |
| Date: 02 /15 /2007 Time: 10:43 | County: Amason Quad: Amason City |
| Collector(s): CHRISTOPHER SHEELING | Permit #: 72-799564-2 |
| Site/Project Name: Tone Casino | Pool #: |
| Township: 77N Range: R. E | Section: 4, 14, 15 39° 27' 40" lat. 120° 50' 40" long. |
| Temperature: Water: | °C Air: <u>/7.5</u> °C |
| Pool Depth: at time of sampling: /22,60 cm | Surface Area: W L at time of sampling: 9.14 m x 16.76 m |
| | estimated maximum: 18.27 m x 21.34 m |
| Habitat Condition: (circle where appropria | ate) |
| | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/ | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.8 Turbidity: (secchi | disc depth) <u> </u> |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |
| 1 PHOTO'S - # 16, #17, #18 | |
| 1 Piero -> #19 | |
| (Foods) | 1 |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | (Jes | no les' | Insects: (adult or larvae) |
|-----------------|------|-------------|---------------------------------|
| Conchostracans: | | no | Anisoptera: yes no |
| Copepods: | ves | NO 100/4 | Zygoptera: yes no |
| Ostracods | yes | no | Hydrophilidae: yes no |
| Fish | yes | no | Dytiscidae: yes no |
| Frogs | yes | no /0's | Corixidae: yes no |
| Salamanders | yes | no | Notonectidae: yes no |
| Waterfowl | yes | no | Belostomatidae: yes no |
| Other (specify) | | | Other (specify) |
| | | | · Culicions - 10'1 (lapror) |
| | | | · because - eryon - (2) (ADVIT) |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species 5 2 2

Individuals

Accession/Catalog #

| Note: Please fill out the required information | on completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | rt of the 90-day report: no _X yes |
| Required color slides and/or photographs for | or the project site are included: no _×_ yes |
| | County: Amaoor Quad: Amaoon Cir |
| | Permit #: 18-719 564- |
| Site/Project Name: FONE CASIND | Pool #: _ K N |
| Township: 772 Range: Range | Section: 11, 14, 15 38° 27'40" lat. 120° 50'44' long. |
| Temperature: Water:/3. | <u>⊘</u> °C Air: <u>/9.2</u> °C |
| Pool Depth: at time of sampling: /22,0 cm | Surface Area: W 1 at time of sampling: 10.67 m x 25,91 m |
| estimated maximum: 18310 cm | estimated maximum: 13.72 m x 36.58 m |
| Habitat Condition: (circle where appropriate | e) |
| | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.7 Turbidity: (secchi di | isc depth) 19,0 cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: . Prorus == #20 , #21 , #22 . #23 , #2 | 4, #25 |
| . PHUTO'S | 1 |

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Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no 1000's | Insects: (adult or larvae) | | | |
|-------------------|-----------|----------------------|----------------------------|----------|----------|---|
| Conchostracans | : yes | no 1000's | Anisoptera: | yes | no | |
| Copepods: | yes | no 1000' 5 | Zygoptera: | yes | no | |
| Ostracods | yes | no | Hydrophilidae: | yes | no 、 | C. Lancardo (1) |
| Fish | yes | no | Dytiscidae: | yes | no > | · Coloophers (LORVAY) |
| Frogs | yes | no | Corixidae: | yes | no | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Salamanders | yes | no | Notonectidae: | yes | no | |
| Waterfowl | yes | no | Belostomatidae: | yes | no | |
| Other (specify) | CANADA | LEESE SUIT | Other (specify) | _ | | |
| , <u> </u> | | | · Culia. fr = - | | (DEVADO) | |
| | LEASTPUL. | ook - Gyraulus 1p 10 | . Lossecons _> s | ישק מבית | -0(| AOUIT) |
| Voucher Specimens | | -> Puysious -> 10° 5 | | | | |
| | | > [HA 31048 -> 10, 2 | • | | | |

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as part | t of the 90-day report: no 🔀 yes |
| Required color slides and/or photographs for | r the project site are included: no yes |
| | County: Amazon Quad: Amazon Ci |
| Collector(s): CHRISTOPHER SHEET, | Permit #: 12-799564-2 |
| Site/Project Name: Tows Casino | Pool #: <u>Α</u> <i>W</i> |
| Township: 77N Range: Rio E | Section: 11, 14, 15 38° 27' 40" lat. 126' 50' 40" long. |
| Temperature: Water: 10.7 | °C Air: / - 4 °C |
| Pool Depth: at time of sampling: 167,0cm | Surface Area: ω ω at time of sampling: $24.38 \text{ m} \times 28.96 \text{ m}$ |
| estimated maximum: 213.4 cm | estimated maximum: 27.43 m x 30.48 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 8.6 Turbidity: (secchi di | sc depth) 25.0 cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |
| Propos - #21, #30, #31, #32 | |
| · Correte Down | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: yes | ג' שופו no | Insects: (adult or larvae) | | |
|---------------------|------------|----------------------------|-------------|---------------------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: yes | no tanali | Zygoptera: | yes | no - 100's (Lazvac) |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs yes | no | Corixidae: | (YES) | no - 100's (ADULTS) |
| Salamanders yes | no | Notonectidae: | yes | 10 -14,3 (went -1) |
| Waterfowl yes | no | Belostomatidae: | yes | no |
| Other (specify) | | Other (specify) | • | |
| | | | S -> \$718* | 100 (MONIT) - 10's |

Voucher Specimens

· Epinemanapith to 1012 (LARVAE)

etitution in which they will be

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Mote: Please fill out the required information | completely for each site visit. |
|--|---|
| This form is being submitted to serve as part | of the 90-day report: no _×_ yes |
| Required color slides and/or photographs for | the project site are included:no× yes |
| | ounty: Amonon Quad: Amoon Co |
| | Permit #: 1E - 799524-2 |
| Site/Project Name: CASIND | Pool #: N |
| Township: 17N Range: RIO E | Section: 11, 14, 15 38° 27'46" lat. 122° 53'45" long. |
| | °C Air: 18.0 °C |
| Pool Depth: at time of sampling: 24,0 cm | Surface Area: W L at time of sampling: 3.66 m x 16.76 m |
| estimated maximum: 38.0 cm | estimated maximum: 6.10 m x 24.38 m |
| Habitat Condition: (circle where appropriate) | |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.4 Turbidity: (secchi dis | c depth) >60.0cm or: clear to bottom × |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |
| PHOTOU #33, #34, #35, #36, # | 33, #35, #39 |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: yes | no (408 | Insects: (adult or larvae) | | |
|--------------------------|-----------|----------------------------|-------|--------------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: Tes | no tao's | Zygoptera: | yes | no |
| Ostracods yes | no | Hydrophilidae: | (yes) | 10 - 1 Abust |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs yes | no | Corixidae: | yes | no |
| Salamanders yes | no | Notonectidae: | yes | no . |
| Waterfowl yes | no | Belostomatidae: | yes | no |
| Other (specify) _ Carrow | GEUSS SUT | Other (specify) | | |
| | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no×_ yes |
| Required color slides and/or photographs for the project site are included: no _×_ yes |
| Date: 02 115 12007 Time: 13:40 County: Amson Quad: Amson City Collector(s): CHRISTOPHEN SHEERI. Permit #: 1E-799564-2 |
| Collector(s): CHRISTOPHEN SHEEPIN Permit #: 1E-799564-2 |
| Site/Project Name: Pool #: F |
| Township: 17N Range: R10 E Section: 11, 14, 15 38° 27' 40" lat. 120' 25' 40" long. |
| Temperature: Water: 15.8 °C Air: 18.0 °C |
| Pool Depth: Surface Area: W L at time of sampling: 88.0 cm at time of sampling: 25.9 (m x 45.72 m |
| estimated maximum: 30.48 m x 51.82m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 7,4 Turbidity: (secchi disc depth) > 60,0 cm or: clear to bottom X |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: , 440, #41, #42 #43. #44 |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

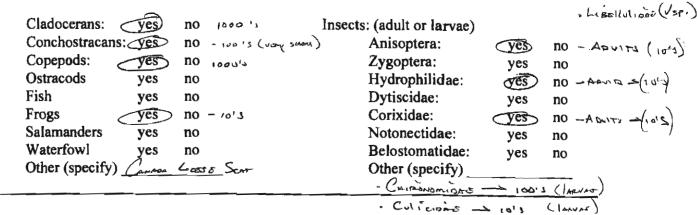
Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):



Voucher Specimens

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Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. | |
|---|---|
| This form is being submitted to serve as part of the 90-day report: no _×_ yes | |
| Required color slides and/or photographs for the project site are included: no _×_ yes | |
| Date: 02 /15 /2007 Time: 14:25 County: Amazon Quad: Amazon C, | |
| Collector(s): CHRISTOPHEN SHECHT Permit #: 7E - 799564-2 | _ |
| Site/Project Name: Tons Casino Pool #: Pool #: | _ |
| Township: 77N Range: Rio E Section: 11, 14, 15 38° 27' 40" lat. 12 31' long. | |
| Temperature: Water: 14.9 °C Air: 19.5 °C | |
| Pool Depth: Surface Area: W L at time of sampling: 32.0 cm at time of sampling: 15.24 m x 19.81 m | |
| estimated maximum: 35.0 cm estimated maximum: 18.29 m x 21.34 m | |
| Habitat Condition: (circle where appropriate) | |
| - undisturbed disturbed: tire tracks garbage discing/plowing | |
| - ungrazed grazed: cattle horses sheep other light moderate heavy | |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO | |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l | |
| pH: 7.2 Turbidity: (secchi disc depth) >60.0 cm or: clear to bottom × | |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm | |
| Notes: | |
| PHOTOLS - # 45-, #46 | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: YES | no (200') | Insects: (adult or larvae) | | |
|------------------------|------------|----------------------------|-------|-------------------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: Ves | NO 1000 '1 | Zygoptera: | yes ` | по |
| Ostracods yes | no | Hydrophilidae: | (YES) | 10'- cores -(0's) |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs yes | no | Corixidae: | yes | no |
| Salamanders yes | no | Notonectidae: | yes" | (2181) 1100A - On |
| Waterfowl yes | no | Belostomatidae: | yes | no |
| Other (specify) Cannon | GEESE SUT | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|--|
| This form is being submitted to serve as part of the 90-day report: no _ × yes |
| Required color slides and/or photographs for the project site are included: no×_ yes |
| Date: 02 / 15 / 2007 Time: 14:45 County: Amapon Quad: Amapon Cit- |
| Collector(s): Creis rapner Secon Permit #: TE-799564-2 |
| Site/Project Name: IONE CASINO Pool#: W Township: 17N Range: Rio E Section: 11,14, 15 38° 27' 46" lat. 120° 65' 45" long. |
| Township: 17N Range: Rio E Section: 11,14, 15 38° 27' 46" lat. 120° 65' 45" long. |
| Temperature: Water: 19.0 °C Air: 19.5 °C |
| Pool Depth: Surface Area: W L at time of sampling: 10.0 cm at time of sampling: 4.57 m x 5.49 m |
| estimated maximum: 15.0 cm estimated maximum: 6.10 m x 7.62 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: \(\frac{\frac}\fint{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\firket{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fracc}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fracc}\frac{\frac{ |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |
| · Punn - #47 |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | | Insects: (adult or larvae) | | | |
|-----------------|--------|----|---------|----------------------------|-----|-------------|--------|
| Conchostracan | s: yes | no | | Anisoptera: | yes | no | |
| Copepods: | Cyes) | no | 1 400 2 | Zygoptera: | yes | no | |
| Ostracods | yes | no | | Hydrophilidae: | yes | NO ADJIT IS | - 10'S |
| Fish | yes | no | | Dytiscidae: | yes | no | |
| Frogs | yes | no | | Corixidae: | yes | no | |
| Salamanders | yes | no | | Notonectidae: | yes | no | |
| Waterfowl | yes | no | | Belostomatidae: | yes | no | |
| Other (specify) | | | | Other (specify) | | | |
| | | | | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. | |
|---|--------|
| This form is being submitted to serve as part of the 90-day report: no _× yes | |
| Required color slides and/or photographs for the project site are included: no _×_ ye | S |
| Date: 02 15 2007 Time: 15:12 County: Amson Quad: Amson | |
| Collector(s): CHRISTO PHEN SHOWN Permit #: TE-799564. | - 2 |
| Fite/Project Name: Font Casino Pool #: X N N N N N N N N N N N N N | _ |
| Township: 772 Range: Rio E Section: 11, 14, 15 38°27' 40" lat. 120° 25'40 lor | ng. |
| Temperature: Water: 19.5 °C Air: 19.5 °C | |
| Pool Depth: Surface Area: W L at time of sampling: 15.5 cm at time of sampling: 2.44 m x 3.96 m | |
| estimated maximum: 200 cm estimated maximum: 3.65 m x 4.57 m | |
| Habitat Condition: (circle where appropriate) | |
| - undisturbed disturbed: tire tracks garbage discing/plowing | , , |
| - ungrazed grazed: cattle horses sheep other light moderate heavy | |
| - land use of habitat: | |
| Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO | |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l | |
| pH: 7.6 Turbidity: (secchi disc depth) 50.0 cm or: clear to bottom | |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm | |
| Notes: | |
| · Poro Voy August in Colon | |
| . Pora Vay August in Colon | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| no | Insects: (adult or larvae) | | |
|------------|----------------------------------|---|---|
| no | Anisoptera: | yes | no |
| no topo; 2 | Zygoptera: | yes | no |
| no | Hydrophilidae: | yes | no |
| no | Dytiscidae: | yes | no |
| no | Corixidae: | yes | no |
| no | Notonectidae: | yes | no |
| no | Belostomatidae: | yes | no |
| | Other (specify) | | |
| | no no no no no no | no Anisoptera: no logalis Zygoptera: no Hydrophilidae: no Dytiscidae: no Corixidae: no Notonectidae: no Belostomatidae: | no Anisoptera; yes no logo s no logo s no Hydrophilidae: yes no Dytiscidae: yes no Corixidae: yes no Notonectidae; yes no Belostomatidae: yes |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | completely for each site visit. | | | |
|---|---|--|--|--|
| This form is being submitted to serve as part of the 90-day report: no _X yes | | | | |
| Required color slides and/or photographs for | the project site are included: no _X_ yes | | | |
| Date: 03 / 02 / 2007 Time: 08:02 C | ounty: Amador Quad: Amador City | | | |
| Collector(s): CHRISTOPHON SCHOOLS | Permit #: TE-799564-2 | | | |
| Site/Project Name: lone Casino | Pool #: _ Ē | | | |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W lat. 120° 50' 40" long | | | |
| Temperature: Water: 5.3 | | | | |
| Pool Depth: at time of sampling: 10.6 cm | Surface Area: W L' at time of sampling: 2.44 m x 3.05 m | | | |
| estimated maximum: 12.0 cm | estimated maximum: 3.66 mx 4.57 m | | | |
| Habitat Condition: (circle where appropriate) | | | | |
| - undisturbed disturbed: | tire tracks garbage discing/plowing | | | |
| - ungrazed grazed: | cattle horses sheep otherheavy | | | |
| - land use of habitat: | | | | |
| (Optional) Water Chemistry Data | | | | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO | | | |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l | | | |
| pH: 7. 7 Turbidity: (secchi di | sc depth) >60,0 cm or: clear to bottom 🗶 | | | |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm | | | |
| Notes: | | | | |

Note: Please fill out the required information completely for each site visit.

| pecies Observations magnitude (e.g., | | | mate # of individuals present in terms of | an orde | er of |
|---|---------|--------|---|---------|-------|
| Anostracans: (note reproductive | e statı | ıs) | | | |
| Notostracans: (note reproductiv | e statı | ıs) | | | |
| pecies Observations | (Optio | onal): | | | |
| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |
| AMPHIPODA - 10 | 15 | | | | |

Voucher Specimens

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Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool#

| Note: Please fill out the required informatio | n completely for each site visit. |
|---|--|
| This form is being submitted to serve as par | t of the 90-day report: noX_yes |
| Required color slides and/or photographs fo | r the project site are included: no X_ yes |
| Date: 03 / 02 / 2007 Time: 08:46 (| County: Amador Quad: Amador City |
| Collector(s): CHEISTOPHEN SHEET | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | Pool #: // _ |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> N w long |
| Temperature: Water: 6.0 | °C Air: 7.5 °C |
| Pool Depth: at time of sampling:cm | Surface Area: W L: at time of sampling: 7.62 m x 15.24 m |
| estimated maximum: 60.0 cm | estimated maximum: 9.14 m x 16.76 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 30 Turbidity: (secchi di | sc depth)>60.0 cm or: clear to bottom 🗡 |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

| Species Observations: state none of | or estimate # c | of individuals | present in | terms of a | ın order o | f |
|-------------------------------------|-----------------|----------------|------------|------------|------------|---|
| magnitude (e.g., 10's, 100's, 1 | 000's) | | | | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | (yes) | no 10's | Insects: (adult or larvae) | | |
|-----------------|-------|-----------------|-----------------------------|----------|-------|
| Conchostracans | yes | no | Anisoptera: | yes | no |
| Copepods: | yes) | 2'001 Off | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | ves | no 100'S | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | ves | no CANADA GOESO | Assers (18) Belostomatidae: | yes | no |
| Other (specify) | | + 5CAT | Other (specify) _ | | |
| | | | CHI RO NOMI DAS | - LARVOS | 100'5 |

Voucher Specimens

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Species

Individuals

Accession/Catalog #

| Note: Please IIII out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | t of the 90-day report: no _X yes |
| Required color slides and/or photographs fo | r the project site are included: no _X_ yes |
| Date: 03 / 02 / 2007 Time: 09:35 | County: Amador City |
| Collector(s): CHE'S TOPHOR SHEET | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino | Pool#: |
| Township: T7N Range: R 10 E | N W 38° 27' 40" lat. 120° 50' 40" long |
| Temperature: Water: 8.8 | °C Air: <u>/3.9</u> °C |
| Pool Depth: at time of sampling: _9.5_ cm | Surface Area: at time of sampling: 2//3 m x 4.57 m |
| estimated maximum: 120 cm | estimated maximum: 3.05 mx 6.10 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.7 Turbidity: (secchi di | sc depth) >60.0 cm or: clear to bottom _x |
| Salinity :ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-----------------|--------|------------|----------------------------|-----|-----------------------------------|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no Too Ensur to I,D. |
| Ostracods | yes | no | Hydrophilidae: | yes | no Calenorena |
| Fish | yes | no | Dytiscidae: | yes | no > ColsoptedAD no > ColsoptedAD |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | CANERA | GERSO SOUT | Other (specify) | | |
| | | | | | |

Voucher Specimens

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Species

Individuals

Accession/Catalog #

Pool#

| | Note: Please fill out the required information completely for each site visit. |
|---|--|
| | This form is being submitted to serve as part of the 90-day report: no _X yes |
| | Required color slides and/or photographs for the project site are included: no _X yes |
| | Date: 03 /02 /2007 Time: 10:11 County: Amador Quad: Amador City |
| | Collector(s): Constragned Constraint #: TE-799564-2 |
| | Site/Project Name: Ione Casino Pool #: |
| | Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W long |
| | Temperature: Water: 9.9 °C Air: 19.4 °C |
| | Pool Depth: Surface Area: W at time of sampling: 183,00 cm at time of sampling: 67.06 m x 106.68 m |
| | estimated maximum: 213,40 cm estimated maximum: 91,44 m x /21,92 m |
| | Habitat Condition: (circle where appropriate) |
| | - undisturbed disturbed: tire tracks garbage discing/plowing |
| | - ungrazed grazed: cattle horses sheep other light moderate heavy |
| | - land use of habitat: |
| | (Optional) Water Chemistry Data |
| | Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| | Dissolved NH ₄ :ppt or ppm |
| | pH: 7.5 Turbidity: (secchi disc depth) > 60.0 cm or: clear to bottom x |
| | Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| , | Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: Yes | no voosis | Insects: (adult or larvae) | | |
|------------------------|-----------------------|----------------------------|----------|---------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: | NO 1000, 7 | Zygoptera: LABUAT | YES | no wors |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs yes | no Leal L | Corixidae: Aputra | Jes | no sois |
| Salamanders yes | no | Notonectidae: | yes | no |
| Waterfowl ves | NO CANAGE LEEST ABOUT | | yes | no |
| Other (specify) CANAGE | Blue HERADU (1) | , (-F), . | | |
| 62838 | <u> </u> | CHIDONOMIONO - 1 | 00'1 (L | ervas) |
| | | ? Diptous (Tipulia | ME TARVA | 2) -107 |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required informatio | n completely for each site visit. |
|---|--|
| This form is being submitted to serve as par | t of the 90-day report: no X yes |
| Required color slides and/or photographs fo | r the project site are included: no X_ yes |
| Date: 03 / 02 / 2007 Time: 10:40 | County: Amador Quad: Amador City |
| Collector(s): Consists para Succes | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W long |
| Temperature: Water: 10.0 | °C Air: _/7.5 °C |
| Pool Depth: at time of sampling: /52.4 cm | Surface Area: W L at time of sampling: 12.19 m x 16.76 m |
| estimated maximum: 213.0 cm | estimated maximum: 18.29 m x 21.34 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep otherlight moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.7 Turbidity: (secchi di | sc depth) >60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

| Species Observations: | state none or estir | mate # of individuals | s present in terms | of an order of |
|-----------------------|---------------------|-----------------------|--------------------|----------------|
| magnitude (e.g., 10 | o's, 100's, 1000's) | | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
|-------------------|-------|--------------------|----------------------------|--------|----------------|
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no io's | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | (yes) | 10 Duck's (2) 9+0" | Belostomatidae: | yes | no |
| Other (specify) _ | | | Other (specify) _C | NOIDAL | - 100'S LADVAS |
| | _ | | - GERMOND - STEY | | 27 NOA |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

| Note: Please fill out the required information | n completely for each site visit. |
|--|--|
| This form is being submitted to serve as par | t of the 90-day report: no _X yes |
| Required color slides and/or photographs fo | r the project site are included: no _X_ yes |
| Date: 03 / 02 / 2007 Time: //:05 | County: Amador City |
| Collector(s): CHRISTOPHO SHEETY | Permit #: TE-799564-2 |
| Site/Project Name: Ione Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W 38° 27' 40" lat. 120° 50' 40" long |
| Temperature: Water://-9 | °C Air: <u>14,6</u> °C |
| Pool Depth: at time of sampling: /52 o cm | Surface Area: W L at time of sampling: 10.67 m x 25.91 m |
| estimated maximum: 183.0 cm | estimated maximum: /3.72 m x 36.58 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.4 Turbidity: (secchi di | isc depth) 55.0 cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

| Spe | cies O | bserva | tions: | state | none | or e | estimate | # o: | f individua | ıls p | resent | in terms | of an | order | of |
|-----|--------|----------|----------|---------|---------|------|----------|------|-------------|-------|--------|----------|-------|-------|----|
| | magni | itude (e | e.g., 10 | 0's, 10 | 00's, 1 | 000 | 0's) | | | | | | | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: (yes) | no lead ! | Insects: (adult or larvae) | | |
|-----------------------|------------------|----------------------------|-----|----------------------|
| Conchostracans: (yes) | no 100's | Anisoptera: | yes | no |
| Copepods: yes | no Isdo' | Zygoptera: | yes | no |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | 10 > COLEOPTER ADJIT |
| Frogs (yes) | no اولار عاد عاد | Corixidae: Abulas | Ves | no vo's |
| Salamanders yes | no | Notonectidae: | yes | no |
| Waterfowl yes | no | Belostomatidae: | yes | no |
| Other (specify) | | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | t of the 90-day report: no X yes |
| Required color slides and/or photographs fo | r the project site are included: no _X yes |
| | County: Amador Quad: Amador City |
| Collector(s): CHEISTOPHON SHOOKY | Permit #: <u>TE-799564-2</u> |
| ¢ | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W long |
| Temperature: Water: /o.2 | °C Air: 20,2 °C |
| Pool Depth: at time of sampling: /83.0 cm | Surface Area: ω L at time of sampling: $24.38 \text{ m x} 23.96 \text{ m}$ |
| estimated maximum: 213.4 cm | estimated maximum: 27.43 m x 30.48 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep otherlight moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.8 Turbidity: (secchi di | sc depth) 52.0 cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | NO Loco | Insects: (adult or larvae) |
|-----------------|-------|---------|---|
| Conchostracans: | yes | no | Anisoptera: yes no |
| Copepods: | (ves) | no toos | Zygoptera: La muns yes no coo's |
| Ostracods | yes | no | Hydrophilidae: yes no colempted |
| Fish | yes | no | Dytiscidae: yes no Aporta |
| Frogs | yes | no | Corixidae: ADOLTE VES no 100's |
| Salamanders | yes | no | Notonectidae: Apolts (yes) no loo's |
| Waterfowl | yes | no | Belostomatidae: yes no |
| Other (specify) | | | Other (specify) Napions - Azuers (10's) |
| · Amourians | 4,000 | | · · · · · · · · · · · · · · · · · |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accessi

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _X yes |
| Required color slides and/or photographs for the project site are included: no _X_ yes |
| Date: 03 / 02 / 2007 Time: 12:53 County: Amador / Quad: Amador City |
| Collector(s): Cincisto prior States Permit #: TE-799564-2 |
| Site/Project Name: lone Casino Pool #: N |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N w long |
| Temperature: Water: 16.4 °C Air: 17.6 °C |
| Pool Depth: at time of sampling: 21.0 cm Surface Area: at time of sampling: 3.66 m x 14.94 m |
| estimated maximum: 30.0 cm estimated maximum: 6./0 m x 24,38 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 9,b cm or: clear to bottom ∠ |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |
| I laput Pool / I madium / I small |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no 100's | Insects: (adult or larvae) | | |
|-----------------|--------|----------|----------------------------|-------|---------|
| Conchostracans | s: yes | no | Anisoptera: | yes | no |
| Copepods: | (yes) | no ,00's | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: Awitz | (yes) | no 18'5 |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |
| | | 3 | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species |

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | t of the 90-day report: no _X yes |
| Required color slides and/or photographs for | r the project site are included: no _X_ yes |
| Date: 03 / 02 / 2007 Time: /3:40 C | county: Amador Quad: Amador City |
| Collector(s): CHRISTOPHER SHEEK, | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> N W long |
| Temperature: Water: 14 | <u>1</u> °C Air: <u>22,1</u> °C |
| Pool Depth: at time of sampling: 700.0 cm | Surface Area: W L at time of sampling: 25.91 m x 45.72m |
| estimated maximum: /2010 cm | estimated maximum: 30.48 m x 51.82 m |
| Habitat Condition: (circle where appropriate | 2) |
| -undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.8 Turbidity: (secchi di | sc depth)cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: (yes) | 110 1000'S | Insects: (adult or larvae) | | |
|--------------------------|------------|----------------------------|-----|------------------------|
| Conchostracans: Ves | no 100's | Anisoptera: Assits (y | es) | no |
| Copepods: Ves | no 100013 | Zygoptera: y | es | no |
| Ostracods Ves | no 1000's | Hydrophilidae: y | es | no > Coleoptera LARVAS |
| Fish yes | no . | Dytiscidae: y | | no lo'i |
| Frogs (TANGELS) Yes | no 100'5 | Corixidae: Asserts 🔍 | ēs) | no 10t 1 |
| Salamanders yes | no | Notonectidae: Asur Q | es | no 10' 1 |
| Waterfowl yes | no | Belostomatidae: y | es | no |
| Other (specify) Canaca a | Gooss Sear | Other (specify) | | |
| · Platy Holming - | | 1 | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _X yes |
| Required color slides and/or photographs for the project site are included: no _X_ yes |
| Date: 03 / 02 /2007 Time: 19:05 County: Amador Quad: Amador City |
| Collector(s): See See Permit #: TE-799564-2 |
| Site/Project Name: Ione Casino Pool #: |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W long |
| Temperature: Water: 16.6 °C Air: 19.7 °C |
| Pool Depth: Surface Area: W L at time of sampling: 37.0 cm at time of sampling: 15.24 m x 19.81 m |
| estimated maximum: 40.0 cm estimated maximum: 18.29 m x 21.34 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 7.5 Turbidity: (secchi disc depth) > 600 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | no 1000'1 | Insects: (adult or larvae) | |
|--------------------|-----------|----------------------------|-------|
| Conchostracans: ye | s no | Anisoptera: ye | s no |
| Copepods: | no 1000's | Zygoptera: ye | s no |
| Ostracods | no reevit | Hydrophilidae: ye | s no |
| Fish ye | s no | Dytiscidae: ye | s no |
| Frogs ye | es no | Corixidae: ye | s no |
| Salamanders ye | es no | Notonectidae: ye | s no |
| Waterfowl ye | es no | Belostomatidae: ye | s no |
| Other (specify) | | Other (specify) | |
| Amphipoos - 100 | 2'5 | · CHIBONOON BLE LARVAS | 100'5 |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _X yes |
| Required color slides and/or photographs for the project site are included: no _X _yes |
| Date: 03 / 02 / 2007 Time: 19:30 County: Amador Quad: Amador City |
| Collector(s): Connistopher Sneary Permit #: TE-799564-2 |
| Site/Project Name: Ione Casino Pool #: |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W lat. <u>120° 50' 40"</u> lat. <u>120° 50' 40"</u> long |
| Temperature: Water: 21.7 °C Air: 18.3 °C |
| Pool Depth: Surface Area: W at time of sampling: 13.0 cm at time of sampling: 4.57 m x 3.54 m |
| estimated maximum: 15.0 cm estimated maximum: 6.10 m x 10.67 m |
| Habitat Condition: (circle where appropriate) |
| undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total): ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 9.3 Turbidity: (secchi disc depth) cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit. Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's) Anostracans: (note reproductive status) Notostracans: (note reproductive status) Species Observations (Optional): Cladocerans: Insects: (adult or larvae) ves no (00'5 Conchostracans: yes Anisoptera: no yes no Copepods: Zygoptera: yeso no 1000's yes no Hydrophilidae: April (Ves) Ostracods yes no no 104 1 Fish Dytiscidae: yes yes no no Frogs (Ves) Corixidae: راه، no yes no Salamanders Notonectidae: Apurs VED yes no no tois Waterfowl Belostomatidae: yes yes no Other (specify) Other (specify) Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _X yes |
| Required color slides and/or photographs for the project site are included: no _X _yes |
| Date: 03 / 02 / 2007 Time: 15:05 County: Amador Quad: Amador City |
| Collector(s): CHRISTOPHEN STEET Permit #: TE-799564-2 |
| Site/Project Name: Ione Casino Pool #: X |
| Township: T7N Range: R 10 E Section: 11, 14, 15 N W lat. 120° 50' 40" long |
| Temperature: Water:°C Air:°C |
| Pool Depth: Surface Area: W 12 18 at time of sampling: 20,0 cm at time of sampling: 3.96 m x 5.48 m |
| estimated maximum: 25,0 cm estimated maximum: 4.57 m x 6,10 m ²⁰ |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 6.9 Turbidity: (secchi disc depth) cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: - VERY AUBURN Color |

Note: Please fill out the required information completely for each site visit.

| Spe | ecies Observations: state none or estimate # of individuals present in terms of an order of |
|-----|---|
| | magnitude (e.g., 10's, 100's, 1000's) |
| | |
| | Anostracans: |

Notostracans:

(note reproductive status)

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | no | | Insects: (adult or larvae) | | |
|-------------------|-----|----|----------|----------------------------|-----|----|
| Conchostracans: | yes | no | | Anisoptera: | yes | no |
| Copepods: | yes | no | | Zygoptera: | yes | no |
| Ostracods | yes | no | | Hydrophilidae: | yes | no |
| Fish | yes | no | | Dytiscidae: | yes | no |
| Frogs | yes | no | | Corixidae: | yes | no |
| Salamanders | yes | no | | Notonectidae: | yes | no |
| Waterfowl | yes | no | | Belostomatidae: | yes | no |
| Other (specify) _ | | | | Other (specify) | | |
| | | | Norminia | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

| Note: Please fill out the re | equired information | n completely fo | r each site | e visit. | |
|-------------------------------------|------------------------|---------------------------------|-------------------|---|-------------------------------|
| This form is being submi- | tted to serve as par | t of the 90-day | report: | noX_ ye | es |
| Required color slides and | or photographs for | r the project sit | e are inclu | ıded: no | X yes |
| Date: 03 /19 /2007 T | ime: <u>/2:30</u> C | County: Amad | or | Quad: <u>A</u> | mador City |
| Collector(s): CPS | | | Permit | #: <u>TE-79956</u> | 34-2 |
| Site/Project Name: lone | Casino | | | Pool #: | dry |
| Township: T7N | _ Range: <u>R 10 E</u> | Section: <u>11,</u> | <u>14, 15</u> | N _ <u>38° 27' 40"</u> lat <u>12</u> | W <u>20° 50' 40</u> " long |
| Temperature: | Water: | °C | Air: | °C | |
| Pool Depth: at time of sampling: | cm | Surface Area: at time of sam | | m x | m |
| estimated maximum: | cm | estimated max | cimum: _ | m x | m |
| Habitat Condition: (circle | e where appropriate | e) | | | |
| - undisturbed | disturbed: | tire tracks | garbage | discing | /plowing |
| - ungrazed | grazed: | cattle horses light | | | |
| - land use of habitat: | | | | | |
| (Optional) Water Chemis | stry Data | | | | |
| Alkalinity (total): | ppm or mg/l | Condu | ictivity: | uMHO | |
| Dissolved NH ₄ : | _ppt or ppm | Dissolved Ox | ygen: | ppm or mg | ;/l |
| рН: | urbidity: (secchi di | isc depth) | _cm <u>or</u> : c | clear to botton | n |
| Salinity:ppt | or ppm | Total Dissolv | ed Solids | (TDS): | _ppm |
| Notes: DRY Pools | | | | | |
| E, I, W, X, N | | | | | |

Note: Please fill out the required information completely for each site visit.

| Species Observations magnitude (e.g., 1 | | | imate # of individuals present in terms of | f an orde | er of |
|---|---|--|---|--|----------------------------------|
| Anostracans: (note reproductiv | ve statı | 18) | | | |
| Notostracans: (note reproductiv | ve statı | ıs) | | | |
| Species Observations | (Optio | onal) : | | | |
| Cladocerans: Conchostracans: Copepods: Ostracods Fish Frogs Salamanders Waterfowl Other (specify) | yes yes yes yes yes yes yes | no no no no no no no | Insects: (adult or larvae) Anisoptera: Zygoptera: Hydrophilidae: Dytiscidae: Corixidae: Notonectidae: Belostomatidae: Other (specify) | yes yes yes yes yes yes | no no no no no no |
| Voucher Specimens Specimens shall be praccessioned. | reserve | ed accordin | g to the standards of the institution in wh | ich they | will be |
| <u>Species</u> | # Ind | <u>ividuals</u> | Accession/Catalog # | <u>Pool</u> | <u>#</u> |

| Note: Please fill out the required information | n completely for each site visit. |
|---|---|
| This form is being submitted to serve as part | t of the 90-day report: no X yes |
| Required color slides and/or photographs for | r the project site are included: no _X _yes |
| Date: 03 /19 /2007 Time: 11:48 C | County: Amador Quad: Amador City |
| Collector(s): | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W lat. 120° 50' 40" long |
| Temperature: Water: 23.0 | °C |
| Pool Depth: at time of sampling: /3, \(\infty\) cm | Surface Area: at time of sampling: 3,05 m x 3,05 m |
| estimated maximum: 50,0 cm | estimated maximum: 9.14 m x 16.74m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other heavy |
| - land use of habitat; | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 9, 9 Turbidity: (secchi di | sc depth) >60.0 cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | Ves | no pago l | Insects: (adult or larvae) |
|-----------------|-------|-----------|---|
| Conchostracans | : yes | no | Anisoptera: yes no |
| Copepods: | yes | no lovo'i | Zygoptera: yes no |
| Ostracods | yes | no | Hydrophilidae: yes no |
| Fish | (VES) | 2 من no | Dytiscidae: ves no 10 10 1 |
| Frogs | yes | no | Corixidae: yes no |
| Salamanders | yes | no | Notonectidae: yes no |
| Waterfowl | yes | no | Belostomatidae: yes no |
| Other (specify) | | | Other (specify) Cultilized - lacins - 120's |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | on completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | rt of the 90-day report: no X yes |
| Required color slides and/or photographs for | or the project site are included: no X yes |
| Date: 03 / 19 /2007 Time: 12:17 | County: Amador Quad: Amador City |
| Collector(s): | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> N W long |
| Temperature: Water: 22.2 | °C Air: <u>22.5</u> °C |
| Pool Depth: at time of sampling: 152,4 cm | Surface Area: ω ω ω at time of sampling: $\omega \omega$ ω ω ω ω ω ω ω ω |
| estimated maximum: 213,40 cm | estimated maximum: 9/,44 m x 121.92 m |
| Habitat Condition: (circle where appropriat | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 8.5 Turbidity: (secchi d | isc depth)>3.2,4 cm or: clear to bottom × |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | no result | Insects: (adult or larvae) | | |
|-------------------------|------------------------|----------------------------|------|------------------------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: | no team's | Zygoptera: LARLOS C | yes | ב' בפו סח |
| Ostracods yes | no | Hydrophilidae: | yes | no Announce Anno |
| Fish yes | no | Dytiscidae: | yes | no Sealestrant - Acres |
| Frogs (2.11) VES | no 1815 | Corixidae: Apunta | 7ES | no too's |
| Salamanders yes | no | | yes | no |
| Waterfowl VES | no iois | Belostomatidae: | yes | no |
| Other (specify) 5457801 | 100 - (PHISIONS) - 100 | Other (specify) Culve | IDAL | - 1 ARMS 100'S |
| | | - DIPTER - 100'S | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each site visit. |
|--|--|
| This form is being submitted to serve as part | t of the 90-day report: no X yes |
| Required color slides and/or photographs for | r the project site are included: no _X_ yes |
| Date: 03 / 19 /267 Time: 12:56 C | county: Amador Quad: Amador City |
| Collector(s): | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> N W long |
| Temperature: Water: 22.5 | °C Air: <u>≥2,3</u> °C |
| Pool Depth: at time of sampling: 19.0 cm | Surface Area: W L at time of sampling: 3.66 m x 4.27 m |
| estimated maximum: 2/3,0 cm | estimated maximum: 18.29 m x 21.34 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: Turbidity: (secchi di | isc depth) >600 cm or: clear to bottom < |
| Salinity: 7.7 ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | yes | 110 1000° | Insects: (adult or larvae) |
|-----------------|--------|-----------|--|
| Conchostracan | s: yes | no | Anisoptera: yes no |
| Copepods: | yes | NO 1000's | Zygoptera: Lacus Ves no 101 1 |
| Ostracods | yes | no | Hydrophilidae: yes no |
| Fish | yes | no | Dytiscidae: Lauras Ves no 1013 |
| Frogs | (Ves | 2'01 On | Corixidae: yes no |
| Salamanders | yes | no | Notonectidae: yes no |
| Waterfowl | yes | no | Belostomatidae: yes no |
| Other (specify) |) | | Other (specify) Colicions - languas - 1000's |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each sit | e visit. |
|--|------------------------------------|---|
| This form is being submitted to serve as par- | of the 90-day report: | no <u>X</u> yes |
| Required color slides and/or photographs for | r the project site are inclu | uded: no _X_ yes |
| Date: 03 /15 /207 Time: 13:21 C | ounty: Amador | Quad: Amador City |
| Collector(s): CPS | Permit | #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | | Pool #: K |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> | N W 38° 27' 40" lat. 120° 50' 40" long |
| Temperature: Water: 22.0 | °C Air: 22. | |
| Pool Depth: at time of sampling: 41.44 cm | Surface Area: at time of sampling: | 6.71 mx 18.20m |
| estimated maximum: /53.0 cm | estimated maximum: _ | 13.72 m x 36.58m |
| Habitat Condition: (circle where appropriate | e) | |
| undisturbed disturbed: | tire tracks garbage | discing/plowing |
| - ungrazed grazed: | cattle horses sheep o | |
| - land use of habitat: | | |
| (Optional) Water Chemistry Data | | |
| Alkalinity (total):ppm or mg/l | Conductivity: | uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen: | ppm or mg/l |
| pH: 8.4 Turbidity: (secchi di | sc depth) 44,8 cm or: | clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids | (TDS):ppm |
| Notes: | | |

Note: Please fill out the required information completely for each site visit.

| Species Observations: state none or estim | ate # of individuals | s present in terms of | an order of |
|---|----------------------|-----------------------|-------------|
| magnitude (e.g., 10's, 100's, 1000's) | | | |

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | Ves | ΠΟ ισσο ^C Ι | Insects: (adult or larvae) | | |
|-----------------|--------|---------------------------|----------------------------|-----|---------|
| Conchostracans | yes | no 100's | Anisoptera: | yes | no |
| Copepods: | ~yes> | 10 la 🖘 / 7 | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: Awr | | no tols |
| Fish | yes | no | Dytiscidae: Leves | yes | no 1013 |
| Frogs | yes | no /00/5 | Corixidae: | yes | no |
| Salamanders | yes | no | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | GASTRO | 1001 - (PHYSIONE) - 100's | Other (specify) | | |
| | | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | t of the 90-day report: no _X yes |
| Required color slides and/or photographs fo | r the project site are included: no X yes |
| Date: <u>03 / 19 / 2007</u> Time: <u>14:12</u> C | County: Amador Quad: Amador City |
| Collector(s): | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W lat. 120° 50' 40" long |
| Temperature: Water: /3. | 2_ °C Air: _22.3 °C |
| Pool Depth: at time of sampling: 183.0 cm | Surface Area: (N) L at time of sampling: 22.86 m x 27.43m |
| estimated maximum: 2/3.4 cm | estimated maximum: 27.43 m x 30.48 m |
| Habitat Condition: (circle where appropriate | e) |
| undisturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 🔫 🗷 Turbidity: (secchi di | sc depth) > 60,0 cm or: clear to bottom × |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: Ves | 10 1000 S | Insects: (adult or larvae) | | |
|---------------------------|--------------------|----------------------------|------|------------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: | no (case) on | Zygoptera: Leeuw | YES | no 1019 |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs (Boll) YES | no 101 > | Corixidae: | VES | 100 iool 3 |
| Salamanders yes | no | Notonectidae: | Ves. | no really |
| Waterfowl yes | 10 - (5) Dock (519 | Belostomatidae: | yes | no |
| Other (specify) Ampuipoo. | 1 - 1000's | Other (specify) | | |
| Platynsla | ניפו – מורוון. | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

| Note: Please fill out the required information completely for each site visit. | | | | |
|--|--|--|--|--|
| This form is being submitted to serve as part | t of the 90-day report; no _X yes | | | |
| Required color slides and/or photographs for | r the project site are included: no _X_ yes | | | |
| Date: 03 / 19 /2007 Time: 15:// C | ounty: Amador City | | | |
| Collector(s): CP.(| Permit #: <u>TE-799564-2</u> | | | |
| Site/Project Name: Ione Casino | Pool #: _ /= | | | |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> N W lat. <u>120° 50' 40"</u> long | | | |
| Temperature: Water: 23.7 | | | | |
| Pool Depth: at time of sampling: 43.0 cm | Surface Area: W L at time of sampling: 17.07 m x 17.68 m | | | |
| estimated maximum: 120.0 cm | estimated maximum: 35.48 m x 51.82 m | | | |
| Habitat Condition: (circle where appropriate | 2) | | | |
| -undisturbed disturbed: | tire tracks garbage discing/plowing | | | |
| - ungrazed grazed: | cattle horses sheep other light moderate heavy | | | |
| - land use of habitat: | 1 | | | |
| (Optional) Water Chemistry Data | .} | | | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO | | | |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l | | | |
| pH: 9,2 Turbidity: (secchi di | sc depth) > cm or: clear to bottom X | | | |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm | | | |
| Notes: | | | | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's) Anostracans: (note reproductive status) Notostracans: (note reproductive status) Species Observations (Optional): Cladocerans: Ves Insects: (adult or larvae) no was's Conchostracans: ves no 100's Anisoptera: yes no Copepods: (TES) Zygoptera: Lawrent no icasi لان no ا Ostracods Hydrophilidae: yes no no 1011 Fish Dytiscidae: LARLAS yes no 10 12' Corixidae: Frogs yes no looks yes no Salamanders Notonectidae: yes no yes no

Voucher Specimens

Waterfowl

yes

Other (specify) Plany Malouarnes -100's

no

· CANADA GEEST-SCAT

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Belostomatidae:

Other (specify)

yes

no

| Note: Please fill out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | t of the 90-day report: no X yes |
| Required color slides and/or photographs fo | r the project site are included: no _X_ yes |
| Date: 03 / 19 / 2007 Time: 13:30 C | County: Amador Quad: Amador City |
| Collector(s): | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> N W long |
| Temperature: Water: 21. 8 | °C Air: <u>/9:9</u> °C |
| Pool Depth: at time of sampling: 30.0 cm | Surface Area: W L at time of sampling: 5.18 m x 11.58 m |
| estimated maximum: 40.0 cm | estimated maximum: /8.29 m x 21.34 m |
| Habitat Condition: (circle where appropriate | e) |
| undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed; | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.6 Turbidity: (secchi di | sc depth) >60.0 cm or: clear to bottom 🔀 |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: Ves | NO Least 2 | Insects: (adult or larvae) | | |
|-------------------------------|------------|----------------------------|-----|-----------------------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: Ves | NO topo 7 | Zygoptera: | yes | no |
| Ostracods yes | no | Hydrophilidae: | yes | 110 Colomos or Acourt |
| Fish yes | no | Dytiscidae: | yes | no > Coleoptor Asony |
| Frogs VES | no 10013 | Corixidae: | yes | no |
| Salamanders yes | no | Notonectidae: | yes | no |
| Waterfowl yes | no | Belostomatidae: | yes | no |
| Other (specify) <u>CANAGE</u> | GOSE - SUT | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

| Note: Please fill out the required information | n completely for each site visit. |
|--|--|
| This form is being submitted to serve as par | t of the 90-day report: no X yes |
| Required color slides and/or photographs fo | r the project site are included: no _X_ yes |
| Date: <u>مع / عه / عه</u> Time: C | County: Amador Quad: Amador City |
| Collector(s): CPS + SM ! | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino | Pool #: _=== Nines |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W lat. 120° 50' 40" long |
| Temperature: Water: | °C Air:°C |
| Pool Depth: at time of sampling:cm | |
| estimated maximum:cm | estimated maximum:m xm |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep otherlight moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: Turbidity: (secchi di | isc depth)cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _X yes |
| Required color slides and/or photographs for the project site are included: no _X _yes |
| Date: 03 /30 /2007 Time: 08:12 County: Amador Quad: Amador City |
| Collector(s): Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino Pool #: H |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W lat. W lat. W long |
| Temperature: Water: 9.8 °C Air: 12.4 °C |
| Pool Depth: Surface Area: ω ω at time of sampling: $\frac{19.0}{m}$ cm at time of sampling: $\frac{2.13}{m}$ m x $\frac{3.35}{m}$ m |
| estimated maximum: 50.0 cm estimated maximum: 9.14 m x 16.76 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 6.3 Turbidity: (secchi disc depth) >600 cm or: clear to bottom × |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

| Species Observations: state none or estimate # of individuals r | present in terms of an order of |
|---|---------------------------------|

Note: Please fill out the required information completely for each site visit.

magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: yes | no | Insects: (adult or larvae) | |
|-------------------------|---------------|----------------------------|---------|
| Conchostracans: yes | no | Anisoptera: LARVAE YES | no 1812 |
| Copepods: | no 1000') | Zygoptera: yes | no |
| Ostracods yes | NO 10'4 | Hydrophilidae: Asura Ves | 10 10'S |
| Fish yes | no | Dytiscidae: Laure YES | no 2012 |
| Frogs yes | no | Corixidae: yes | no |
| Salamanders yes | no | Notonectidae: yes | no |
| Waterfowl yes | no | Belostomatidae: yes | no |
| Other (specify) Plannel | MINTHES -10's | Other (specify) | |
| | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no X yes |
| Required color slides and/or photographs for the project site are included: no _X _yes |
| Date: 03 30 2007 Time: 09:18 County: Amador Quad: Amador City |
| Collector(s): Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino Pool #: Pool #: |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W lat. 120° 50' 40" long |
| Temperature: Water: /3./ °C Air: 12.8 °C |
| Pool Depth: Surface Area: ω L at time of sampling: 152.4 cm at time of sampling: 64.01 m x 91.44 m |
| estimated maximum: 213,49cm estimated maximum: 91,44 m x 12192 m |
| Habitat Condition: (circle where appropriate) |
| - undisturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 6.7 Turbidity: (secchi disc depth) > 60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | (VES) | no | (464) | Insects: (adult or larvae) | | |
|-----------------|--------------|------|--------------------------|----------------------------|-------------|-------------------|
| Conchostracans | ves | no | 1001 | Anisoptera: | yes | no |
| Copepods: | ₹ | no | 1440,7 | Zygoptera: کیمومین | yes | no 100'1 |
| Ostracods | yes | no | • | Hydrophilidae: 🗛 | JIN YES | no 1001) |
| Fish | yes | no | | Dytiscidae: | yes | no |
| Frogs | ÇÇ SS | no | 100,7 | Corixidae: 👡 🕞 | Gres | no 100/2 |
| Salamanders | yes | no | | Notonectidae: | yes | no |
| Waterfowl | (Yes) | no | CAMAGA COLETE | Belostomatidae: | yes | no \ |
| Other (specify) | LASTROFSE | * | | Other (specify) | Culicions | - (LARUME) - 1005 |
| | GYAAIIW (| Plan | cominant) + PHyon (PHy. | Isith (Fuzzoner) | 350000 | - (AGENTS) - 10'S |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no X yes |
| Required color slides and/or photographs for the project site are included: no _X _yes |
| Date: 03 /30 /207 Time: 10:23 County: Amador Quad: Amador City |
| Collector(s): |
| Site/Project Name: lone Casino Pool #: K |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W lat. <u>120° 50' 40"</u> lat. <u>120° 50' 40"</u> long |
| Temperature: Water: 19.2 °C Air: 17.3 °C |
| Pool Depth: Surface Area: L at time of sampling: 91.94 cm at time of sampling: 6.90 m x 18.59 m |
| estimated maximum: 183.0 cm estimated maximum: 13,72 m x 36,58m |
| Habitat Condition: (circle where appropriate) |
| undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other light moderate heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 6.9 Turbidity: (secchi disc depth) 32.0 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: yes | no topols | Insects: (adult or larvae) | | |
|---------------------------|--------------------|----------------------------|------------|-------------------|
| Conchostracans: yes | no 1001 | Anisoptera: | yes | no |
| Copepods: | NO 1450' 1 | Zygoptera: | yes | no |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs yes | no 1013 | Corixidae: Aouth | yes | no io'i |
| Salamanders yes | no | Notonectidae: | yes | no |
| Waterfowl yes | no | Belostomatidae: | yes | no |
| Other (specify) . History | 2'01 - A3U | Other (specify) | Culierones | - 100'3 (LARVIE) |
| · Planut | 1, 001 - 10ML PLUM | | | |

LADROOPORA - PHYBA/ PHYBILL

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information | completely for each site visit. |
|--|---|
| This form is being submitted to serve as part | of the 90-day report: noX_yes |
| Required color slides and/or photographs for | the project site are included: no _X_ yes |
| Date: 03 / 30 / 2007 Time: 11:34 Co | ounty: Amador Quad: Amador City |
| Collector(s): | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: Ione Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W lat. 120° 50' 40" long |
| Temperature: Water: 14.1 | °C Air: 22.0 °C |
| | Surface Area: ω ω ω at time of sampling: ω m x |
| estimated maximum: 213.4 cm | estimated maximum: 27.73 m x 30.48 m |
| Habitat Condition: (circle where appropriate) | |
| undisturbed disturbed: | tire tracks garbage discing/plowing |
| | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | • |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.1 Turbidity: (secchi dis | c depth) 360.0 cm or: clear to bottom X |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | ~». |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | ves | no · | (a w c) () | Insects: (adult or larvae) | | |
|-------------------|------------|------|--------------|----------------------------|----------|---------------|
| Conchostracans: | yes | no | | Anisoptera: | yes | по |
| Copepods: | (VES) | no | tous's | Zygoptera: LARVAG | yes | no vois |
| Ostracods | yes | no | | Hydrophilidae: | yes | no |
| Fish | yes | no | | Dytiscidae: | yes | no |
| Frogs | Ves | no | 1012 | Corixidae: Aour | yes | ΠΟ 100 1 |
| Salamanders | yes | no | | Notonectidae: As-15 | yes | no Itali |
| Waterfowl | yes | no | | Belostomatidae: | yes | no |
| Other (specify) 1 | Ampripio | | 000's | Other (specify) <u>G</u> s | PRIDAC - | 10'1 (AOUITI) |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _X yes |
| Required color slides and/or photographs for the project site are included: no _X_ yes |
| Date: 03 / 30 / 2007 Time: 12:40 County: Amador Quad: Amador City |
| Collector(s): <u>CPJ</u> Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino Pool #: F |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W long |
| Temperature: Water: /5.1 °C Air: 23.0 °C |
| Pool Depth: Surface Area: W / L at time of sampling: 37.5 cm at time of sampling: 10.67 m x 14.63 m |
| estimated maximum: 120.0 cm estimated maximum: 30.48 m x 51.82 m |
| Habitat Condition: (circle where appropriate) |
| undisturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 7.4 Turbidity: (secchi disc depth) > 60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: ves | no tooo't | Insects: (adult or larvae) | | |
|--------------------------|----------------|----------------------------|-----|----------|
| Conchostracans: ves | no loors | Anisoptera: | yes | по |
| Copepods: ves | no todo's | Zygoptera: | yes | no |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs | no tees | Corixidae: Abutta | yes | no 10013 |
| Salamanders yes | no | Notonectidae: | yes | no |
| Waterfowl yes | no | Belostomatidae: | yes | no |
| Other (specify) Planymet | LINDS - ETHENT | Other (specify) | | <u>_</u> |
| • | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _X yes |
| Required color slides and/or photographs for the project site are included: no _X _yes |
| Date: 03 / 30 / 217 Time: 19:25 County: Amador Quad: Amador Cit |
| Collector(s): <u>CPS</u> Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino Pool #: |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W lat. 120° 50' 40" lon |
| Temperature: Water: 15.7 °C Air: 23.2 °C |
| Pool Depth: Surface Area: W 4 at time of sampling: 30.0 cm at time of sampling: 4.88 m x 9.14 m |
| estimated maximum: 18.29 m x 21.34 m |
| Habitat Condition: (circle where appropriate) |
| -undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed: cattle horses sheep other heavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm |
| pH: 6.7 Turbidity: (secchi disc depth) > 60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

| Not | e: P | lease | fill out t | the require | ed inform | atio | n c | omp | letely | for ea | ich site visit. | | |
|-----|------|-------|------------|-------------|-----------|------|-----|-----|--------|--------|-----------------|--|--|
| ~ | | 01 | | | | | | ۵. | | | | | |

| Anostracans: | | | | | |
|--------------------|------------|-----------|----------------------------|-------|--------|
| (note reproduc | tive statu | is) | | | |
| Notostracans: | | | | | |
| (note reproduc | tive statu | ıs) | | | |
| Species Observatio | ns (Optio | onal) : | | | |
| Cladocerans: | ves | 10 1000,7 | Insects: (adult or larvae) | | |
| Conchostracans | ves | no 1011 | Anisoptera: | es/es | no |
| Copepods: | Ves | NO 14ed(4 | | es/es | no |
| Ostracods | yes | no | Hydrophilidae: | (es) | no ioi |
| Fish | yes | no | Dytiscidae: Abdur y | es | no |
| Frogs | yes | no lesty | Corixidae: Apuin | res> | no ioi |
| Salamanders | yes | no | | es | no |
| Waterfowl | yes | no | | es/ | no |
| Other (specify) | | | Other (specify) | | |
| · Amphipaa | | | | | |
| · Hydrocopin | | | | | |
| Voucher Specimens | S | | | | |

accessioned.

Individuals Accession/Catalog # **Species** Pool#

| Note: Please fill out the required information | n completely for each site visit. |
|--|--|
| This form is being submitted to serve as par- | t of the 90-day report: no _X yes |
| Required color slides and/or photographs fo | r the project site are included: no _X yes |
| Date: 03 /30 /2007 Time: 14:20 C | County: Amador Quad: Amador City |
| Collector(s): CPS | Permit #: TE-799564-2 |
| Site/Project Name: lone Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W 38° 27' 40" lat. 120° 50' 40" long |
| Temperature: Water: 18.5 | °C Air: <u>28.0</u> °C |
| Pool Depth: at time of sampling: tb.o cm | Surface Area: ω ω at time of sampling: 3.04 m x 3.76 m |
| estimated maximum: 213.0 cm | estimated maximum: 18.27 m x 21.34 m |
| Habitat Condition: (circle where appropriate | e) |
| -undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep otherlight moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.2 Turbidity: (secchi di | isc depth) >60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | • |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: ves | no roads | Insects: (adult or larvae) | | |
|---------------------|-----------------------|----------------------------|-----|---------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: yes | NO (#80,7 | Zygoptera: LARVAE | yes | no ta's |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs yes | 2' or on | Corixidae: | yes | no |
| Salamanders yes | no | Notonectidae: | yes | no |
| Waterfowl yes | no | Belostomatidae: | yes | no |
| Other (specify) | 004 - PHYSA / PUTSELL | Other (specify) | | |
| | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information | completely for each site visit. |
|--|--|
| This form is being submitted to serve as part | of the 90-day report: no _X yes |
| Required color slides and/or photographs for | the project site are included: no X yes |
| Date: 04 / 13 / 2007 Time: C | ounty: Amador Quad: Amador City |
| Collector(s): CPS + SMS | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | Pool #: 355 Note; |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W 38° 27' 40" lat. 120° 50' 40" long |
| Temperature: Water: | °C |
| | Surface Area: at time of sampling:m xm |
| estimated maximum:cm | estimated maximum:m xm |
| Habitat Condition: (circle where appropriate |) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep otherlight moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: Turbidity: (secchi di | sc depth)cm or: clear to bottom |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

| Species Observations magnitude (e.g., 1 | | | estimate # of individuals present in terms of 00's) | an orde | er of |
|---|---------|--------|---|---------|-------|
| Anostracans: (note reproductiv | e statu | ıs) | | | |
| Notostracans: (note reproductiv | e statu | ıs) | | | |
| Species Observations | (Optio | onal): | | | |
| Cladocerans: | yes | no | Insects: (adult or larvae) | | |
| Conchostracans: | yes | no | Anisoptera: | yes | no |
| Copepods: | yes | no | Zygoptera: | yes | no |
| Ostracods | yes | no | Hydrophilidae: | yes | no |
| Fish | yes | no | Dytiscidae: | yes | no |
| Frogs | yes | no | Corixidae: | yes | no |
| Salamanders | yes | по | Notonectidae: | yes | no |
| Waterfowl | yes | no | Belostomatidae: | yes | no |
| Other (specify) | | | Other (specify) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information | completely for each site visit. |
|--|--|
| This form is being submitted to serve as part | of the 90-day report: no _X yes |
| Required color slides and/or photographs for | r the project site are included: no _X_ yes |
| Date: 04 / /3 /2007 Time: 09:41 C | ounty: Amador Quad: Amador City |
| Collector(s): CPS + Sms | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W lat. 120° 50' 40" long. |
| Temperature: Water: //. | 8_ °C Air: _/2.5_ °C |
| Pool Depth: at time of sampling: 1.52.4cm | Surface Area: W L at time of sampling: 36.58m x 60.96m |
| estimated maximum: 213.4 cm | estimated maximum: 91.44 m x /21.92m |
| Habitat Condition: (circle where appropriate | |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed. | cattle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: g.t Turbidity: (secchi di | sc depth) >60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: Ves | no 1000' \ Insect | s: (adult or larvae) | |
|---|----------------------------------|-----------------------------|--------------------|
| Conchostracans: yes | no | Anisoptera: Lagues (Ves) | no iois |
| Copepods: Ves | no toost | Zygoptera: LARVAS (VES) | no 100' à |
| Ostracods yes | no | Hydrophilidae: Amn YES | 100 100 t |
| Fish yes | no | Dytiscidae: yes | no |
| Frogs VES | ΠΟ ισ⇔'λ | Corixidae: A LTJ YES | no 100 3 |
| Salamanders yes | no | Notonectidae: yes | no |
| Waterfowl ves | no 10th (Duck + Comes Letters) | | no |
| Other (specify) 🚜 🗓 🗷 🐧 🗓 🖂 🗓 🗸 🗓 🗸 🗓 🗸 🗓 | HUBA or Payse I Englisher - 1954 | Other (specify) 2745 MEROPA | THE LABOURT - 10'S |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information completely for each site visit. | | | | |
|--|--|--|--|--|
| This form is being submitted to serve as part of the 90-day report: no _X yes | | | | |
| Required color slides and/or photographs for the project site are included: no _X_ yes | | | | |
| Date: 04 /13 /2007 Time: 11:23 County: Amador Quad: Amador City | | | | |
| Collector(s): Permit #: <u>TE-799564-2</u> | | | | |
| Site/Project Name: lone Casino Pool #: K | | | | |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W long. | | | | |
| Temperature: Water: 16.2 °C Air: 13.1 °C | | | | |
| Pool Depth: Surface Area: W L at time of sampling: 9/14/cm at time of sampling: 4.10 m x 16,74 m | | | | |
| estimated maximum: 183,0 cm estimated maximum: 13.72 m x 36.58 m | | | | |
| Habitat Condition: (circle where appropriate) | | | | |
| - undisturbed disturbed: tire tracks garbage discing/plowing | | | | |
| - ungrazed grazed: Cattle horses sheep other light moderate heavy | | | | |
| - land use of habitat: | | | | |
| (Optional) Water Chemistry Data | | | | |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO | | | | |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l | | | | |
| pH: 8.7 Turbidity: (secchi disc depth) 37.0 cm or: clear to bottom | | | | |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm | | | | |
| Notes | | | | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: | Ves | no tose's | Insects: (adult or larvae) | |
|-----------------|-------------|-------------------------|-----------------------------------|----------------|
| Conchostracans | : ÇES | ו no ניספט | Anisoptera: yes | no |
| Copepods: | (VES) | no tead's | Zygoptera: LAPVAS (VES) | no (00°) |
| Ostracods | yes | no | Hydrophilidae: | no 10'S |
| Fish | yes | no | Dytiscidae: LARME YES | no 10'1 |
| Frogs | Cyes | no loo' | Corixidae: Apults yes | no /00's |
| Salamanders | yes | no | Notonectidae: 400175 (755) | no 10's |
| Waterfowl | yes | no | Belostomatidae: yes | no |
| Other (specify) | 6 LASTER PR | as - PHYS+ / PUYSOILA - | ware Other (specify) CHIZOMOPHINI | - Leaves 100's |
| | HIRWIN | Em (1) | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>

Individuals

Accession/Catalog #

Pool#

| Note: Please fill out the required information | i completely for each site visit. |
|--|--|
| This form is being submitted to serve as part | of the 90-day report: no _X yes |
| Required color slides and/or photographs for | r the project site are included: no _X_ yes |
| Date: 04 / 13 / 2007 Time: 11:04 C | ounty: Amador Quad: Amador City |
| Collector(s): cps - 5ms | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: 11, 14, 15 N W lat. 120° 50' 40" long |
| Temperature: Water: 18.7 | °C Air: 21.9 °C |
| Pool Depth: at time of sampling: _7-5 cm | Surface Area: ω ω at time of sampling: 3.05 m x 3.66 m |
| estimated maximum: 213.0 cm | estimated maximum: +8.29 m x 21.34 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep otherlight moderate heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.2 Turbidity: (secchi di | sc depth) 3 (, o cm or: clear to bottom |
| Salinity: ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: Ves | no seucis | Insects: (adult or larvae) | |
|----------------------------|-----------------------|----------------------------|-------------------|
| Conchostracans: yes | no | Anisoptera: Ass. (VES) | no 10'1 |
| Copepods: Ves | no iduali | Zygoptera: Lawar yes | no (66) |
| Ostracods yes | no | Hydrophilidae: yes | no |
| Fish yes | no | Dytiscidae: yes | no |
| Frogs ves | no /a's | Corixidae: yes | no |
| Salamanders yes | no | Notonectidae: yes | no |
| Waterfowl yes | no | Belostomatidae: yes | no |
| Other (specify)- 645720000 | as - Puzza / Puzzalla | Other (specify) Culia and | و اهوا هـ كديسا ك |
| Hyperca | 21MA 10'1 | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

| Note: Please fill out the required information completely for each site visit. |
|---|
| This form is being submitted to serve as part of the 90-day report: no _X_ yes |
| Required color slides and/or photographs for the project site are included: no _X_ yes |
| Date: 04 / 13 / 2007 Time: //:58 County: Amador Quad: Amador City |
| Collector(s): Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino Pool #: |
| Township: <u>T7N</u> Range: <u>R 10 E</u> Section: <u>11, 14, 15</u> N W lat. <u>120° 50' 40</u> " long |
| Temperature: Water: 17.5 °C Air: 24.4 °C |
| Pool Depth: Surface Area: W L at time of sampling: 21,0 cm at time of sampling: 4,27 m x 8,53 m |
| estimated maximum: 40.0 cm estimated maximum: 1827 m x 21.34 m |
| Habitat Condition: (circle where appropriate) |
| -undisturbed disturbed: tire tracks garbage discing/plowing |
| - ungrazed grazed cattle horses sheep otherheavy |
| - land use of habitat: |
| (Optional) Water Chemistry Data |
| Alkalinity (total):ppm or mg/l Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm Dissolved Oxygen:ppm or mg/l |
| pH: 7.6 Turbidity: (secchi disc depth) 42.0 cm or: clear to bottom |
| Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm |
| Notes: |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| no 1000, 7 | Insects: (adult or larvae) | | |
|-----------------|--|--|--|
| no | Anisoptera: | yes | no |
| 10 (pag)) | Zygoptera: | yes | no |
| no | Hydrophilidae: LARW 5 | yes . | no was |
| no | Dytiscidae: Lapuar (| ves | no (0 '+ |
| 10 100/1 | Corixidae: Apurts | yes | no lipt |
| no | Notonectidae: Apulii | yes> | no 1019 |
| no | Belostomatidae: | yes | no |
| <u> → (00')</u> | Other (specify) | | |
| | uo u | no Anisoptera: no Leed's Zygoptera: no Hydrophilidae: Lagua ano Dytiscidae: Lagua ano Corixidae: Apults ano Notonectidae: Apults ano Belostomatidae: | no Anisoptera: yes no 1990's Zygoptera: yes no Hydrophilidae: Lagras yes no Dytiscidae: Lagras yes no Corixidae: Apults yes no Notonectidae: Apults yes no Belostomatidae: yes |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

Individuals

Accession/Catalog #

Pool#

| Note: Please IIII out the required information | n completely for each site visit. |
|--|---|
| This form is being submitted to serve as par | t of the 90-day report: no X yes |
| Required color slides and/or photographs fo | r the project site are included: no X yes |
| Date: 04 / 13 / 2007 Time: 18:01 (| County: Amador Quad: Amador City |
| Collector(s): CPJ + SMJ | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> N W long |
| Temperature: Water: 18:3 | C Air: 20,0 °C |
| Pool Depth: at time of sampling: 35.0 cm | Surface Area: W L at time of sampling: 9-14 m x 13-72 m |
| estimated maximum: 1200 cm | estimated maximum: 30.48 m x 51.32 m |
| Habitat Condition: (circle where appropriate | e) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | catfle horses sheep other heavy |
| - land use of habitat: | |
| (Optional) Water Chemistry Data | . . |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.5 Turbidity: (secchi di | isc depth) >60,0 cm or: clear to bottom X |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

| Anostracans: (note reproductive | e status) | | | |
|---|--|----------------------------|---|---|
| Notostracans: (note reproductive | e status) | | | |
| Species Observations (| (Optional) |): | | |
| Conchostracans: Copepods: Costracods Fish Frogs Salamanders | yes no |) (5 paem) 100,7 | Insects: (adult or larvae) Anisoptera: yes Zygoptera: Area Yes Hydrophilidae: Area Yes Dytiscidae: yes Corixidae: Area Yes Notonectidae: Area Yes Belostomatidae: yes Other (specify) | uo 10,7 uo 10,7 uo 10,13 uo 10,13 uo 100,13 |
| Voucher Specimens Specimens shall be preaccessioned. | eserved ac | cording to the | ne standards of the institution in which they w | vill be |
| Species | # Individu | <u>uals</u> | Accession/Catalog # Pool # | <u>!</u> |

| Note: Please fill out the required information | n completely for each site visit. |
|--|--|
| This form is being submitted to serve as part | of the 90-day report: no X yes |
| Required color slides and/or photographs for | r the project site are included: no _X yes |
| Date: 04 / 13 / 2007 Time: 14-11 C | ounty: Amador Quad: Amador City |
| Collector(s): CPS + Sms | Permit #: <u>TE-799564-2</u> |
| Site/Project Name: lone Casino | Pool #: |
| Township: T7N Range: R 10 E | Section: <u>11, 14, 15</u> N W lat. 120° 50' 40" long |
| Temperature: Water: 1500 | °C Air: 20.1 °C |
| Pool Depth: at time of sampling: //83.ecm | Surface Area: W Z at time of sampling: 21,34 m x 27,43 m |
| estimated maximum: 218.4cm | estimated maximum: 27.43 m x 30.48 m |
| Habitat Condition: (circle where appropriate | 2) |
| - undisturbed disturbed: | tire tracks garbage discing/plowing |
| - ungrazed grazed: | cattle horses sheep otherlight moderate heavy |
| - land use of habitat: | • |
| (Optional) Water Chemistry Data | |
| Alkalinity (total):ppm or mg/l | Conductivity:uMHO |
| Dissolved NH ₄ :ppt or ppm | Dissolved Oxygen:ppm or mg/l |
| pH: 7.7 Turbidity: (secchi di | sc depth) >60.0 cm or: clear to bottom × |
| Salinity:ppt or ppm | Total Dissolved Solids (TDS):ppm |
| Notes: | |

Note: Please fill out the required information completely for each site visit.

Species Observations: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

| Cladocerans: Ves | no 1000's | Insects: (adult or larvae) | | |
|---------------------|------------|----------------------------|-----|-----------|
| Conchostracans: yes | no | Anisoptera: | yes | no |
| Copepods: VES | no 1000's | Zygoptera: 🛶 | ves | no 100'> |
| Ostracods yes | no | Hydrophilidae: | yes | no |
| Fish yes | no | Dytiscidae: | yes | no |
| Frogs yes | no | Corixidae: Amun | yes | no 1000's |
| Salamanders yes | no | Notonectidae: Acurs | ves | no iman'i |
| Waterfowl yes | no 2 Duces | Belostomatidae: | yes | no |
| Other (specify) | | Other (specify) | | |
| | | | | |

Voucher Specimens

Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species # Individuals Accession/Catalog # Pool #

Attachment 4

Site Photos



PHOTO 1

Wetland E - Adjacent to drainage ditch C and D and located on the east side of the fence. Photograph was taken facing northeast.



PHOTO 3

Wetland G - Located in the center of the property. Photograph was taken facing northeast.



Wetland F - Located in the center of the property. Photograph was taken facing north.



Potential vernal pool H - Located along the northwest part of the property. Photograph was taken facing north.



РНОТО 5

Wetland I - Seep on the west side of the dam of Wetland J. Photograph was taken facing west.



PHOTO 7

Cattle pond K - Located in the central northern part of the property. Photograph was taken facing southeast.



PHOTO 6

Cattle pond J - A large cattle pond along the northern boundary of the property. Photograph was taken facing north.



PHOTO 8

Cattle pond L - Located on the northeastern boundary of the property. Photograph was taken facing southeast.

Attachment 5

Report of Findings

Regarding Federally-Listed Branchiopods

For

Miwok Casino

Amador County, California

ECORP 2005

REPORT OF FINDINGS REGARDING FEDERALLY-LISTED BRANCHIOPODS

FOR

MIWOK CASINO

Amador County, California

DRAFT

July 27, 2005

Prepared for:

Analytical Environmental Services



REPORT OF FINDINGS REGARDING FEDERALLY-LISTED BRANCHIOPODS

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| LIST OF FIGURES | | | |
| Figure 1. Project Site and Vicinity Map | | ******* | . 2 |
| Figure 2. Vernal Pool and Seasonal W | ******** | . 4 | |
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LIST OF ATTACHMENTS

Attachment A – Wet Season Survey Data Attachment B – Representative Site Photos – 12/22/04

INTRODUCTION

On behalf of Analytical Environmental Services, ECORP Consulting, Inc., has conducted a wet season survey of the proposed Miwok Casino Site (project) located in western Amador County, California. The purpose of the survey was to determine the presence of aquatic crustacean (branchiopod) species listed by the U.S. Fish and Wildlife Service (USFWS) [(i.e., vernal pool fairy shrimp (*Branchinecta lynchi*) and vernal pool tadpole shrimp (*Lepidurus packardi*)]. Surveys were conducted under the authority of Federal Fish and Wildlife Permit No. TE-012973-2 in compliance with the April 19, 1996 *Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Poul Branchiopods* (Guidelines). This document is the 90-Day Report of Findings for the Miwok Casino property (as required by Item VII of the *Guidelines*), which summarizes the results of wet season determinate survey work for this property. Mr. Ken Fuller of the USFWS gave ECORP verbal authorization to conduct the survey on 16 November 2004.

The 228-acre subject property is located south of the town of Plymouth in Amador County, California. The site is situated east of State Highway 49 at an elevation of 900 to 1,140 feet above mean sea level. The property corresponds to portions of sections 11, 14 and 15 in Township 7 North, Range 10 East, on the Amador City, California 7.5-minute USGS quadrangle. (Figure 1 – *Project Site and Vicinity Map*). Vegetation communities on-site include annual grassland, mixed chaparral, and blue oak woodland. Naturally-occurring ephemeral wetlands. (i.e., vernal pools, seasonal wetlands, and wetland swales) are scattered throughout portions of the annual grassland community. Approximately 1.82 acres of the naturally-occurring ephemeral wetlands on the subject property represent potential branchiopod habitat.

METHODS

Survey methodology followed "wet season sampling" protocols outlined in the April 19, 1996

Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the

Endangered Species Act for the Listed Vernal Pool Branchiopods (Guidelines). The property
was visited on 10, & 22 December 2004, 04, 17 & 31 January 2005, 14 & 28 February 2005, 14
& 28 March 2005, 12 & 25 April 2005. All inundated wetlands were visually inspected and dip-

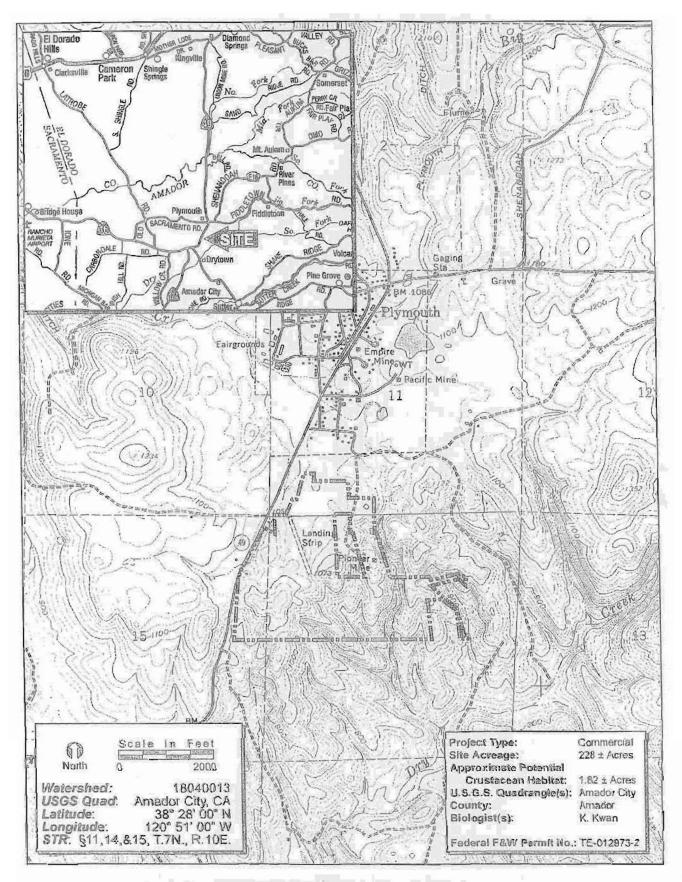


FIGURE 1. Project Site and Vicinity Map

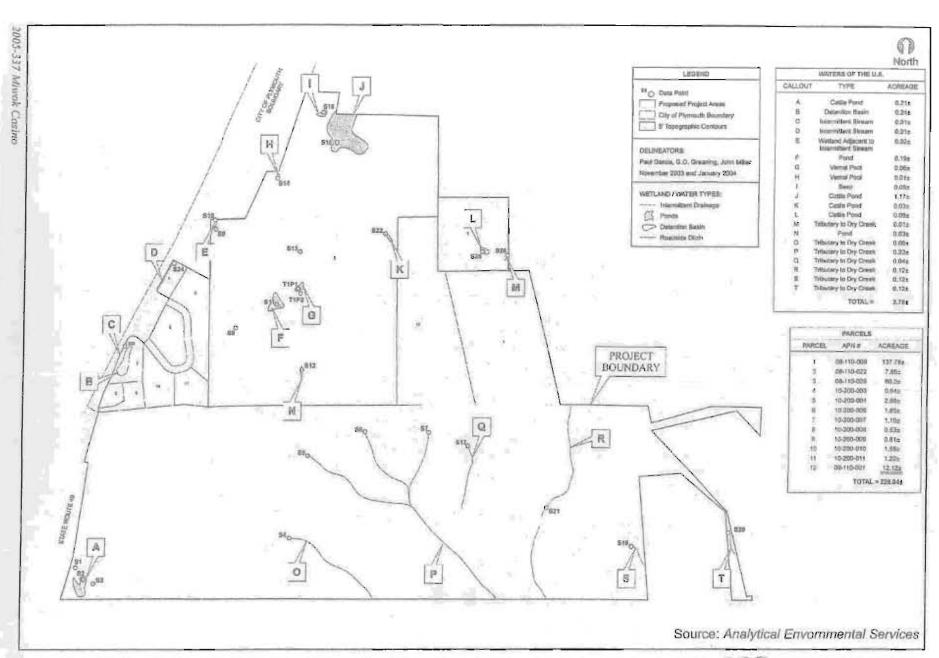
netted during each site visit. (Figure 2 - Vernal Pool and Seasonal Wetland Sampling Locations). Required data were collected and documented on U.S. Fish and Wildlife Service-approved Vernal Pool Data Sheet Wet Season Survey data forms. Permitted biologists Keith Kwan and Peter Balfour conducted the field surveys.

RESULTS

During the 2004-2005 sampling season, all seasonal wetland features on the property were surveyed on eleven separate occasions. No listed branchiopods were observed on the project site on any of the survey dates. Completed U.S. Fish and Wildlife Service-approved Vernal Pool Data Sheet Wet Season Survey summary sheets are provided in Attachment A. The sheets summarize all required data (i.e., wetland depth of inundation, surface area, water temperature, listed branchiopod species occurrence, and approximate number of individuals per species). Additional data include other observed invertebrates identified to lowest possible taxon (during field surveys), and vertebrate species observed in the wetland features. Representative site photographs are provided in Attachment B.

SUMMARY

All seasonal wetland features (including vernal pools) on the Miwok Casino property were investigated to determine the presence of listed aquatic crustacean (branchiopod) species. Wet season field surveys were conducted between 10 December 2004 and 25 April 2005. No listed branchiopods were observed on the project site.



ECORP Consulting, Inc.

FIGURE 2. Vernal Pool and Seasonal Wetland Sampling Locations

LIST OF ATTACHMENTS

Attachment A – USFWS Vernal Pool Data Sheets

Attachment B – Representative Site Photographs 12/22/04

ATTACHMENT A

USFWS Vernal Pool Data Sheets

| Site/Project Name: | Miwok Casino | Miwok Casino 2004-337 | | | County/Quad: Amador / Amador City | | | | |
|--|--------------------|-------------------------------------|------------------------------|----------------------------|-----------------------------------|---|--|--|--|
| Permitted Biologist: | Keith Kwan | | | Permit Number: TE-012973-2 | | | | | |
| Sample Date: 12/10/2004 Start Time: 9:30 Start Air Temp (C): 11 Pool Number | | orth, Range 10 E 7' 40" N Longit | 1 | | 111 | End Time: 11:15 End Air Temp (C): 12 | | | |
| | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates | | | |
| NI | 10 | 3 | | 10 | None | | | | |
| N2 | 13 | 9 | | 10 | None | | | | |
| F | 40 | 240 | | 11 | None | | | | |
| G | 16 | 70 | | 11 | None | | | | |
| H | 27 | 42 | | 11 | None | | | | |
| J | 50+ | 1020 | | -11 | None | bullfrogs (ad+larvae), mosquitofish | | | |
| 1 | Dry | | The second second | Company of the second | | | | | |
| K | 50+ | 96 | | 12 | None | Planariidae | | | |
| Е | 8 | 1 | | 13 | None | | | | |
| U | 7 | 2 | | 13 | None | | | | |
| V | 12 | 2 | | 13 | None | | | | |
| ٨ | | | | | | not fairy shrimp habitat | | | |

| Site/Project Name: | Miwok Casino | Miwok Casino 2004-337 | | | County/Quad: Amador / Amador City | | | | |
|---|--------------------------|-------------------------------------|------------------------------|----------------------------|-----------------------------------|---|--|--|--|
| Permitted Biologist: | Keith Kwan, Pete Balfour | | | Permit Number: TE-012973-2 | | | | | |
| Sample Date: 12/22/2004 Start Time: 10:00 Start Air Temp (C): 6 | | orth, Range 10 E 7' 40" N Longit | | 11. 15. T. A. P. (201) | | End Time: 12:00 End Air Temp (C): 9 | | | |
| Pool Number | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Arca (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertehrates / Vertebrates | | | |
| NI | 0 | 1-12 | | | | | | | |
| N2 | 0 | | | | | | | | |
| F | 33 | 120 | | á | None | photo 1; clodocera, notonectid, dyliscid, hydracarina | | | |
| G | 0 | | 20-0 x 200 x /1 200 | | | | | | |
| H | 10 | 9 | 4 | 7 | None | photo 2 | | | |
| J | 55 | 1050 | 7/ | 7 | None | photo 3, 4; bullfrogs (larval), mosquitofish, damselfly larvae, snails | | | |
| | 0 | | | | | | | | |
| K | 50 | 125 | | 7 | None | photo 5; ostracod, dytiscid larvae, aphencroptera, possible imm. Anostraca | | | |
| E | Dry | | | | | | | | |
| U | Dry | | Military of several | | | | | | |
| V | Dry | HOUSE THE REST OF THE | | | | | | | |
| A | 80+ | 280 | L v less | 8 | None | phono 6; amphipods, bullfrog larves; not fare shrimp habitat | | | |

| Site/Project Name: | Miwoh Casing 2004-337 Krish Kwan | | | County/Quad: Amador / Amador City | | | | |
|--|--|--------------------------------------|------------------------------|---|------------------------|---|--|--|
| Permitted Biologist: | | | | Permit Number: TE-012973-2 | | | | |
| Sample Bate: 1/04/2005 Start Time: 11:00 Start Air Temp (C): 6 | ACCUMULATION OF THE PROPERTY O | orth, Range 10 E 7" 40" N. Longit | | DOMAN DECEMBER OF THE PARTY OF | | End Time: 13:30 End Air Temp (C): 8 | | |
| | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates | | |
| NI | 8 | 8 | 8 | g | None | | | |
| N2 | 23 | 68 | 68 | 9 | None | ALEXANDER - TRANSPORT | | |
| F | 50+ | 1350 | 1350 | 8 | None | | | |
| G | 32 | 221 | 221 | 9 | None | | | |
| V | 1.7 | 6 | 6 | 9 | Mone | | | |
| E | Dry | | 2 | | | | | |
| U | 8 | 24 | 24 | 9 | None | MCC Balling Commence | | |
| H | 31 | 55 | 55 | 8 | None | | | |
| D. | 50+ | 7500 | 7500 | 8 | None | | | |
| J | 6 | 8 | 8 | 9 | Name | | | |
| K | 50+ | 480 | 480 | 8 | Nane | | | |
| A | 100+ | 36% | 368 | -8 | None | lingly tearlishing | | |

| Site/Project Name: | Miwok Casino 2004-337 Keith Kwan | | | County/Quad: Amador / Amador City | | | | |
|--|-------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------|--|--|--|
| Permitted Biologist: | | | | Permit Number: TE-012973-2 | | | | |
| Sample Date: 1/17/2005 Start Time: 10:00 Start Air Temp (C): 6 | | orth, Range 10 I 7' 40" N. Longi | | | | End Time: 12:00 End Air Temp (C): 7 | | |
| | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates | | |
| NI | 17 | 8 | 8 | 5 | None | | | |
| N2 | 25 | 36 | 68 | 5 | None | AMERICAN CONTRACTOR OF THE PARTY OF THE PART | | |
| F | 50+ | 1350 | 1350 | 4 | None | | | |
| G | 29 | 221 | 221 | 4 | None | | | |
| V | 5 | 6 | 6 | 5 | None | | | |
| E | 0 | | CONTROL OF THE PARTY. | | | | | |
| U | 14 | 24 | 24 | 5 | None | | | |
| H | 34 | 55 | 55 | 4 | None | | | |
| j | 50+ | 7500 | 7500 | 4 | None | 10 | | |
| I | 7 | 4 | 8 | 5 | None | | | |
| K | 50+ | 480 | 480 | 4 | None | | | |
| A | 100÷ | 368 | 368 | 4 | None | | | |

| Site/Project Name: | Miwok Casino 2004-337 Kelth Kwan | | | County/Quad: Amador / Amador City | | | | |
|---|-------------------------------------|------------------------------------|------------------------------|---|------------------------|---|--|--|
| Permitted Biologist: | | | | Permit Number: TE-012973-2 | | | | |
| Sample Date: 1/31/2005 Start Time: 10:00 Start Air Temp (C): 10 | | orth, Range 10 I 7' 40" N Longi | | End Time: 12:00 End Air Temp (C): 13 | | | | |
| Pool Number | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates | | |
| NI | 21 | 3 | 8 | 8 | None | | | |
| N2 | 22 | 30 | 68 | 8 | None | | | |
| F | 45 | 700 | 1350 | 8 | None | | | |
| G | 28 | 120 | 221 | 8 | None | | | |
| ν | 0 | | 6 | | None | | | |
| E | 0 | | | | | | | |
| U | 8 | 8 | 24 | 8 | None | | | |
| Н | 27 | 35 | 55 | 8. | None | | | |
| J | 50+ | 7500 | 7500 | 8 | None | | | |
| Í. | 9 | 6 | 8 - | 8 | None | | | |
| K | 504 | 480 | 480 | 8 | None | | | |
| A | 50+ | 368 | 368 | 8 | None | | | |

| Site/Project Name: | Misvok Casino 2004-337 | | | County/Quad: Amador / Amador City | | | | |
|--|--|--------------------------------------|------------------------------|-----------------------------------|---|---|--|--|
| Permitted Biologist: | Keith Kwan | | | Permit Number: TE-012973-2 | | | | |
| Sample Date: 2/14/2005 Start Time: 9:30 Start Air Temp (C): 14 | The second secon | orfit, Range 10 I 7' 40" N. Longi | | | End Time: 12:00 End Air Tamp (C): 16 | | | |
| | Puol Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. | Lästed Branchiopods | Comments / Other Invertebrates / Vertebrates | | |
| NI | 16 | 2 | 8 | 9 | None | | | |
| N2: | 211 | 6.8 | 68 | 9 | None | (E) | | |
| F | 50+ | 1350 | 1350 | 3 | None | | | |
| G | 32 | 221 | 22.1 | 9 | None | | | |
| V | O. | | 6 | | None | | | |
| E. | 01 | | | | | | | |
| U | 10 | (in | 24 | 9 | None | | | |
| Н | 34 | 24 | 55 | 8 | None | | | |
| 3 | 50+ | 4200 | 7500 | 8 | None | | | |
| 1 | 0 | | 8 | | None | | | |
| K | 50.+ | 120 | 480 | 8 | None | | | |
| A | 50± | 368 | 361 | 3 | None | | | |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | | | |
|---|--------------------|-------------------------|-------------------------------------|-----------------------------------|---|--|--|--|
| Permitted Biologist: | Keith Kwan | | | Permit Numbe | | | | |
| Sample Date: 2/28/2005 Start Time: 9:45 Start Air Temp (C): 14 Pool Number | | | East, Section 11 tude: 120 50' 4 | | End Time: 11:30 End Air Temp (C): 16 | | | |
| | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates | | |
| NI | 9 | 6 | 8 | 9 | None | | | |
| N2 | 19 | 24 | 68 | 9 | None | | | |
| F | 50+ | 1350 | 1350 | 9 | None | 200 | | |
| G | 26 | 63 | 221 | 9 | None | I find | | |
| V | 6 | 8 | 6 | 10 | None | | | |
| E | Dry | | | | | | | |
| U | 10 | 6 | 24 | 10 | None | | | |
| Н | 24 | 32 | 55 | 10 | None | = xx1 x | | |
| J | 50+ | 4200 | 7500 | 9 | None | The same of the sa | | |
| 1 | Dry | | 8 | | None | | | |
| K | 50+ | 240 | 480 | 9 | None | | | |
| A | 50+ | 368 | 368 | 9 | None | | | |

| Site/Project Name: | Miwok Casino | Miwok Casino 2004-337 | | | Amador / Ama | ador City |
|--|----------------------------|------------------------------------|---|----------------------------|------------------------|---|
| Permitted Biologist: | Keith Kwan | | - which | Permit Number: TE-012973-2 | | |
| Sample Date: 3/14/2005 Start Time: 9:30 Start Air Temp (C): 18 | SCHOOL STANDARD CONTRACTOR | orth, Range 10 I 7' 40" N Longi | End Time: 11:00 End Air Temp (C): 21 | | | |
| Pool Number | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates |
| NI - | 4 | 1.2 | 8 | 13 | None | |
| N2 | 10 | 12 | 68 | 12 | None | |
| F | 50+ | 1350 | 1350 | -11 | None | |
| G | 18 | 35 | 221 | 12 | None | |
| γ | Dry | | 6 | | | |
| E | Dry | | | | | |
| U | Dry | | 24 | | 72. | |
| Н | 17 | 24 | -55 | 12 | None | |
| J | 50+ | 3500 | 7500 | 11 | None | Company of the second |
| 1 | Dry | | 8 | | | |
| K | 50+ | 240 | 480 | 11 | None | |
| A | 50+ | 300 | 368 | 11 | None | |

| Site/Project Name: | Miwok Casino | Miwok Casino 2004-337 Keith Kwan | | | County/Ouad: Amador / Amador City | | | | |
|---|--------------------|-------------------------------------|---|---|-----------------------------------|---|--|--|--|
| Permitted Biologist: | Keith Kwan | | | | Permit Number: TE-012973-2 | | | | |
| Sample Date: 3/28/2005 Start Time: 9:00 Start Air Temp (C): 12 Paul Number | | orth, Rauge 10 E 7' 40" N. Longi | End Time: 11:00 End Air Temp (C): 15 | | | | | | |
| | Pool Depth (em) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates | | | |
| NI | 23 | 2 | 8 | 10 | None | | | | |
| N2 | 25 | 21 | 68 | 10 | None | | | | |
| F | 50+ | 1350 | 1350 | 10 | None | | | | |
| G | 29 | 30 | 221 | 10 | Noon | | | | |
| V | 10 | 6 | 6 | 10 | None | | | | |
| E | Dry | | | 100000000000000000000000000000000000000 | | | | | |
| U | 12 | 15 | 24 | 10 | Nane | | | | |
| 11 | 41 | 2.8 | 55 | 31- | Nune | | | | |
| J | 50+ | 7500 | 7500 | 10 | None | | | | |
| ĭ | 5 | 2 | 8 | 11. | None | | | | |
| K | 50+ | 480 | 480 | 10 | None | | | | |
| A | 100+ | 368 | 368 | 10 | None | | | | |

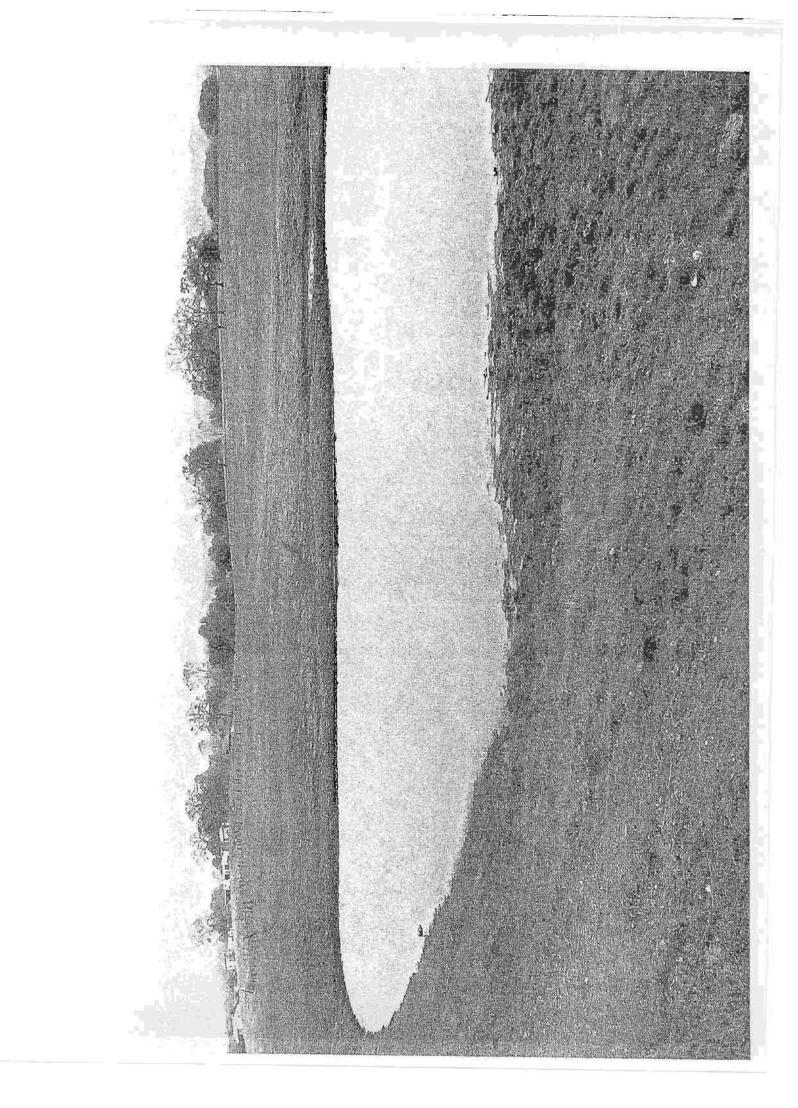
ATTACHMENT B

Representative Site Photographs Taken 22 December 2004

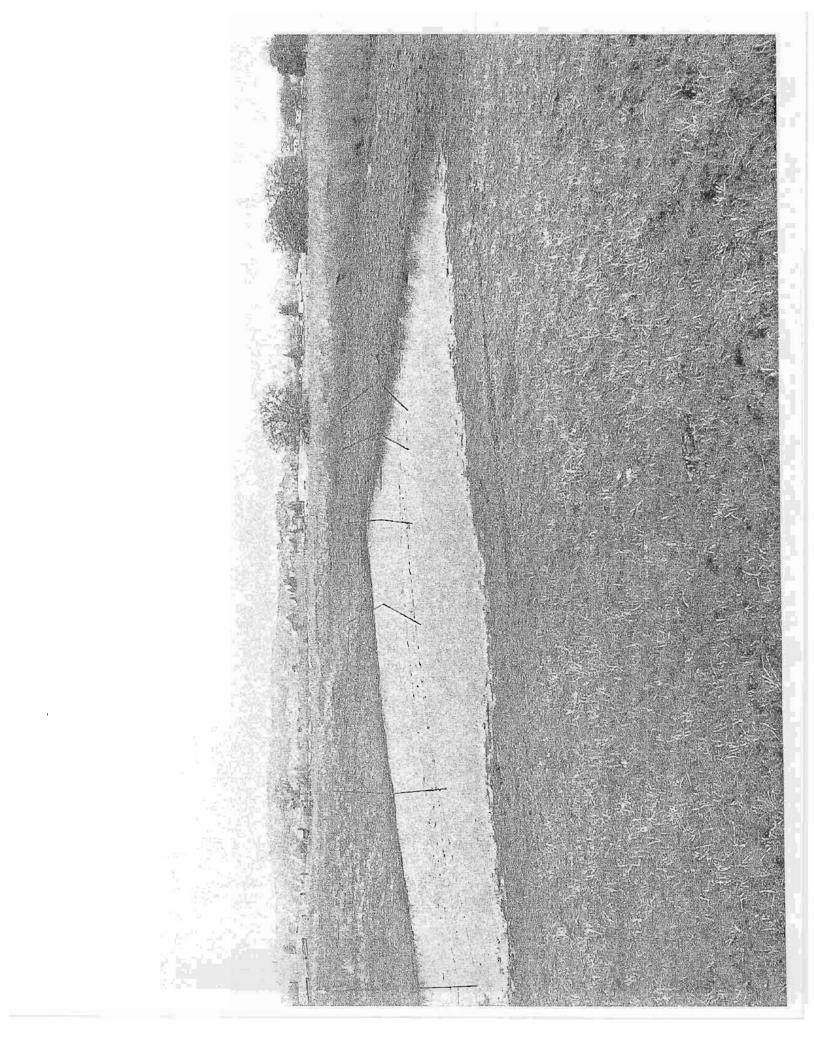
| Site/Project Name: | Miwok Casino 2004-337 Keith Kwan | | | County/Quad: Amador / Amador City | | | | |
|---|-------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------|--|--|--|
| Permitted Biologist: | | | | Permit Number: TE-012973-2 | | | | |
| Sample Date: 4/12/2005 Start Time: 10:00 Start Air Temp (C): 12 | | orth, Range 10 I 27' 40" N Longi | | | 74 | End Time: 11:30 End Air Temp (C): 14 | | |
| | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates | | |
| N1 | 14 | 0.5 | 8 | 12 | None | | | |
| N2 | 19 | 8 | 68 | 12 | None | | | |
| F | 50+ | 1350 | 1350 | 12 | None | | | |
| G | 1.8 | 16 | 221 | 12 | None | Comment of the Commen | | |
| V | 3 | 1 | 6 | 12 | None | A STATE OF THE STA | | |
| В | Dry | | | | | | | |
| U | 5 | 2 | 24 | 12 | None | 7, | | |
| H | 35 | 20 | 55 | 12 | None | | | |
| J | 50+ | 7500 | 7500 | 12 | None | | | |
| I | Dry | | 8 | | | | | |
| K | 50+ | 480 | 480 | 12 | None | | | |
| A | 100+ | 368 | 368 | 12 | None | | | |

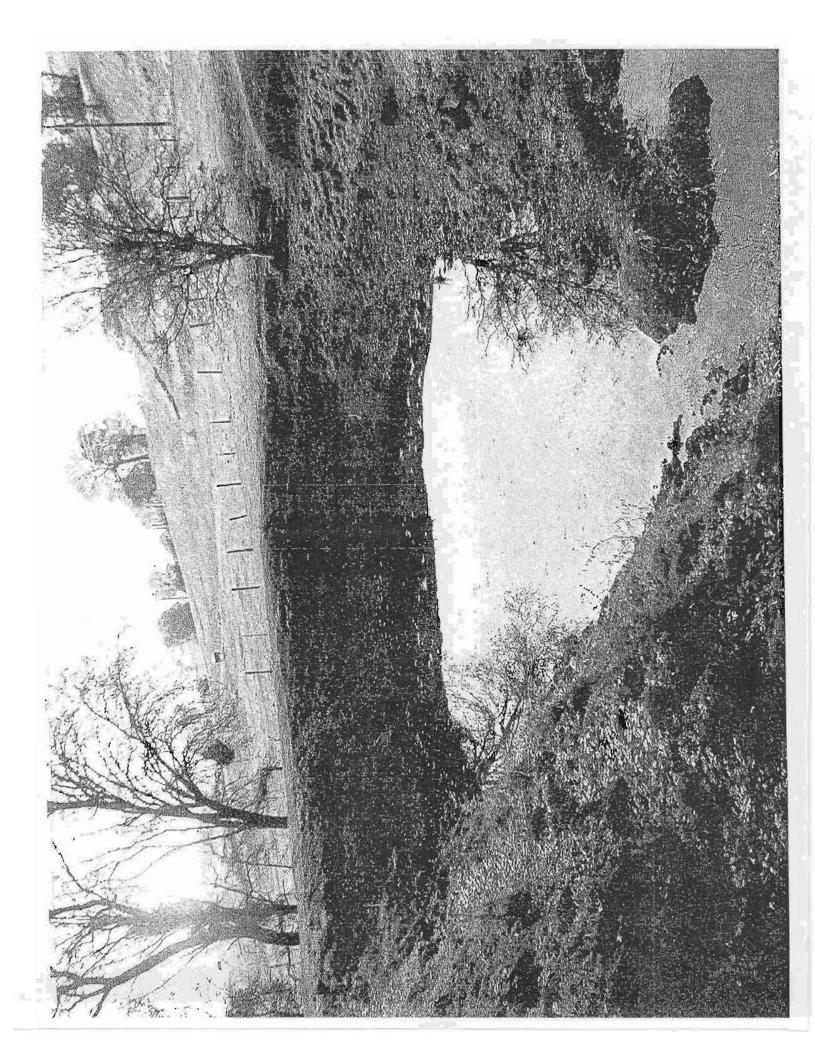
| Site/Project Name: | Miwok Casino | Miwok Casino 2004-337 | | | County/Quad: Amador / Amador City | | | | |
|---|--|------------------------------------|------------------------------|----------------------------|---|---|--|--|--|
| Permitted Biologist: | Keith Kwan | | | Permit Number: TE-012973-2 | | | | | |
| Sample Date: 4/25/2005 Start Time: 10:00 Start Air Temp (C): 15 | The state of the s | orth, Range 10 I 7' 40" N Longi | | | End Time: 11:00 End Air Temp (C): 18 | | | | |
| Pool Number | Pool Depth (cm) | Surface Area (sq. m) | Max. Surface Area (sq. m) | Water Temp. (C) | Listed Branchiopods | Comments / Other Invertebrates / Vertebrates | | | |
| NI | Dry | | 8 | | | | | | |
| N2 | Dry | | 68 | | | | | | |
| F | 50+ | 100 | 1350 | 13 | None | Andrea of the first of the second | | | |
| G | 26 | 30 | 221 | 12 | None | | | | |
| V | Dry | | 6 | | | | | | |
| E | Dry | | | | | | | | |
| U | Dry | | 24 | et | | | | | |
| Н | Dry | | 55 | L+LCPT-MITTER | | | | | |
| J | 50+ | 2000 | 7500 | 12 | None | | | | |
| I | Dry | 9 | 8 | | | | | | |
| К | 50+ | 240 | 480 | 12 | None | | | | |
| A | 50+ | 150 | 368 | 12 | None | | | | |











REPORT OF FINDINGS REGARDING FEDERALLY-LISTED BRANCHIOPODS

FOR

MIWOK CASINO

Amador County, California

July 27, 2005

Prepared for:

Analytical Environmental Services



REPORT OF FINDINGS REGARDING FEDERALLY-LISTED BRANCHIOPODS

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LIST OF ATTACHMENTS

Attachment A – Wet Season Survey Data Attachment B – Representative Site Photos – 12/22/04

INTRODUCTION

On behalf of Analytical Environmental Services, ECORP Consulting, Inc., has conducted a wet season survey of the proposed Miwok Casino Site (project) located in western Amador County, California. The purpose of the survey was to determine the presence of aquatic crustacean (branchiopod) species listed by the U.S. Fish and Wildlife Service (USFWS) [(i.e., vernal pool fairy shrimp (*Branchinecta lynchi*) and vernal pool tadpole shrimp (*Lepidurus packardi*)]. Surveys were conducted under the authority of Federal Fish and Wildlife Permit No. TE-012973-2 in compliance with the April 19, 1996 *Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods* (Guidelines). This document is the 90-Day Report of Findings for the Miwok Casino property (as required by Item VII of the *Guidelines*), which summarizes the results of wet season determinate survey work for this property. Mr. Ken Fuller of the USFWS gave ECORP verbal authorization to conduct the survey on 16 November 2004.

The 228-acre subject property is located south of the town of Plymouth in Amador County, California. The site is situated east of State Highway 49 at an elevation of 900 to 1,140 feet above mean sea level. The property corresponds to portions of sections 11, 14 and 15 in Township 7 North, Range 10 East, on the Amador City, California 7.5-minute USGS quadrangle. (Figure 1 – *Project Site and Vicinity Map*). Vegetation communities on-site include annual grassland, mixed chaparral, and blue oak woodland. Naturally-occurring ephemeral wetlands (i.e., vernal pools, seasonal wetlands, and wetland swales) are scattered throughout portions of the annual grassland community. Approximately 1.82 acres of the naturally-occurring ephemeral wetlands on the subject property represent potential branchiopod habitat.

METHODS

Survey methodology followed "wet season sampling" protocols outlined in the April 19, 1996

Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the

Endangered Species Act for the Listed Vernal Pool Branchiopods (Guidelines). The property
was visited on 10, & 22 December 2004, 04, 17 & 31 January 2005, 14 & 28 February 2005, 14
& 28 March 2005, 12 & 25 April 2005. All inundated wetlands were visually inspected and dip-

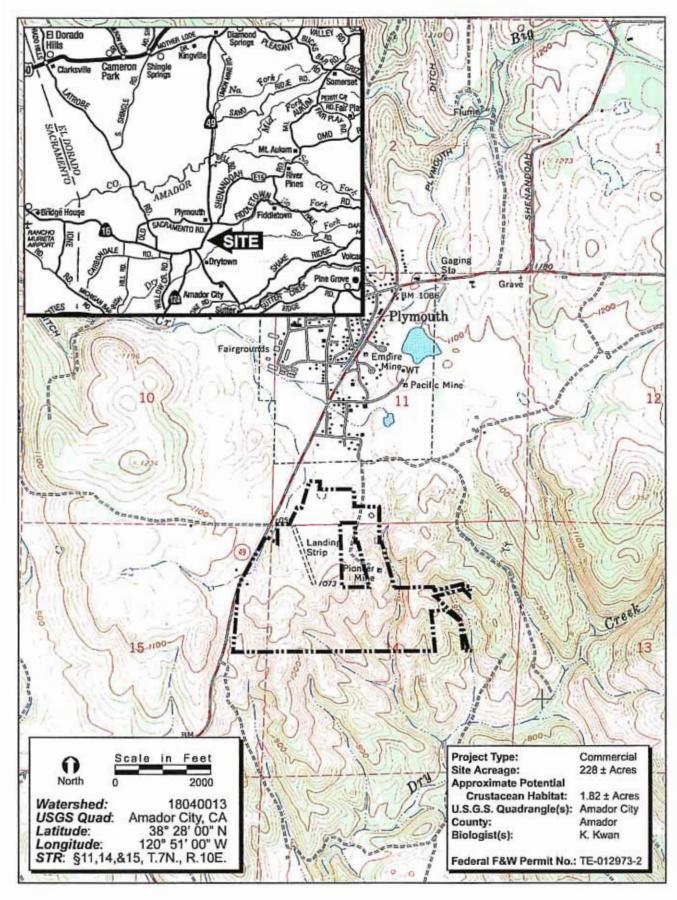


FIGURE 1. Project Site and Vicinity Map

netted during each site visit. (Figure 2 - Vernal Pool and Seasonal Wetland Sampling Locations). Required data were collected and documented on U.S. Fish and Wildlife Service-approved Vernal Pool Data Sheet Wet Season Survey data forms. Permitted biologists Keith Kwan and Peter Balfour conducted the field surveys.

RESULTS

During the 2004-2005 sampling season, all seasonal wetland features on the property were surveyed on eleven separate occasions. No listed branchiopods were observed on the project site on any of the survey dates. Completed U.S. Fish and Wildlife Service-approved Vernal Pool Data Sheet Wet Season Survey summary sheets are provided in Attachment A. The sheets summarize all required data (i.e., wetland depth of inundation, surface area, water temperature, listed branchiopod species occurrence, and approximate number of individuals per species). Additional data include other observed invertebrates identified to lowest possible taxon (during field surveys), and vertebrate species observed in the wetland features. Representative site photographs are provided in Attachment B.

SUMMARY

All seasonal wetland features (including vernal pools) on the Miwok Casino property were investigated to determine the presence of listed aquatic crustacean (branchiopod) species. Wet season field surveys were conducted between 10 December 2004 and 25 April 2005. No listed branchiopods were observed on the project site.

ECORP Consulting, Inc.

FIGURE 2. Vernal Pool and Seasonal Wetland Sampling Locations

LIST OF ATTACHMENTS

Attachment A - USFWS Vernal Pool Data Sheets

Attachment B - Representative Site Photographs 12/22/04

ATTACHMENT A

USFWS Vernal Pool Data Sheets

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | |
|-------------------------|----------------|-----------------|------------------|-----------------------------------|--------------|-------------------------------------|
| Permitted Biologist: | Keith Kwan | | | Permit Number: TE-012973-2 | | |
| Sample Date: 12/10/2004 | Township 7 No | rth, Range 10 E | ast, Section 11, | 14, 15 | | |
| Start Time: 9:30 | Latitude: 38 2 | 7' 40" N Longit | nde: 120 50' 40 | w w | | End Time: 11:15 |
| Start Air Temp (C): 11 | | | | | | End Air Temp (C): 12 |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates |
| NI | 10 | 3 | | 10 | None | |
| N2 | 13 | 9 | | 10 | None | |
| F | 40 | 240 | | 11 | None | |
| G | 16 | 70 | | 11 | None | |
| H | 27 | 42 | | 11 | None | |
| 1 | 50+ | 1020 | | 11 | None | bullfrogs (ad+larvae), mosquitofish |
| I | Dry | | | | | |
| K | 50+ | 96 | | 12 | None | Planariidae |
| E | 8 | 1 | | None | | |
| U | 7 | 2 | None | | | |
| V | _12 | 2 | | 13 | None | |
| Α | | | | <u></u> | | not fairy shrimp habitat |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | |
|-------------------------|----------------|------------------|------------------|-----------------------------------|----------------|---|
| Permitted Biologist: | Keith Kwan, P | ete Balfour | | | r: TE-012973-2 | |
| Sample Date: 12/22/2004 | Township 7 No | rtlı, Range 10 E | ast, Section 11, | 14, 15 | | |
| Start Time: 10:00 | Latitude: 38 2 | 7' 40" N Longti | ude: 120 50' 40 |)" W | | End Time: 12:00 |
| Start Air Temp (C): 6 | | -7 | | | | End Air Temp (C): 9 |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates |
| NI | 0 | | | | | |
| N2 | 0 | | | | | |
| F | 33 | 120 | | 6 | None | plioto 1; clodocera, notonectid, dytiscid, hydracarina |
| G | 0 | | | | | _ |
| Н | 10 | 9 | | 7 | None | photo 2 |
| J | 55 | 1050 | | 7 | None | photo 3, 4; bullfrogs (larval), mosquitofish, damselfly larvae, snails |
| [| 0 | | | | | |
| K | 50 | 125 | | 7 | None | photo 5; ostracod, dytiscid larvae, ephencroptera, possible imm. Anostraca |
| E | Dry | | | | | |
| U | Dry | | | | | |
| V | Dry | | | | | |
| A | 80+ | 280 | | 8 | None | photo 6; amphipods, bullfrog larvae; not fany shrimp habitat |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | |
|------------------------|-----------------|-----------------|------------------|-----------------------------------|--------------|----------------------------------|
| Permitted Biologist: | Keith Kwan | | | Permit Number: TE-012973-2 | | |
| Sample Date: 1/04/2005 | Township 7 No | rth, Range 10 E | nst, Section 11, | 14, 15 | | |
| Start Time: 11:00 | Latitude: 38 2' | 7' 40" N Longit | ude: 120 50' 40 |)" W | | End Time: 12:30 |
| Start Air Temp (C): 6 | | | | | | End Air Temp (C): 8 |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates |
| NI | _8 | 8 | 8 | 9 | None | |
| N2 | 23 | 68 | 68 | 9 | None | |
| F | 50+ | 1350 | 1350 | 8 | None | |
| G | 32 | 221 | 221 | 9 | None | · |
| v | 17 | 6 | 6 | 9 | None | |
| Е | Dry | • | | | | |
| U | 8 | 24 | _24 | 9 | None | |
| H | 18_ | 55 | 55 | 8 | None | |
| J | 50+ | 7500 | None | | | |
| 1 | 6 | 8 | 8 | None | | |
| K | 50÷ | 480 | 480 | None | | |
| Α | 100+ | 368 | 368 | 8 | None | high turbidity |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | | |
|------------------------|----------------|-----------------|-------------------|-----------------------------------|--------------------------|----------------------------------|--|
| Permitted Biologist: | Keith Kwan | | | Permit Numbe | rmit Number: TE-012973-2 | | |
| Sample Date: 1/17/2005 | Township 7 No | rth, Range 10 I | East, Section 11, | 14, 15 | | | |
| Start Time: 10:00 | Latitude: 38 2 | 7' 40" N Longii | tude: 120 50' 4 | אי ייס ٧ | | End Time: 12:00 | |
| Start Air Temp (C): 6 | | - | | | | End Air Temp (C): 7 | |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / | |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates | |
| NI | 17 | 8 | 8 | 5 | None | | |
| N2 | 25 | 36 | 68 | 5 | None | | |
| F | 50÷ | 1350 | 1350 | 4 | None | | |
| G | 29 | 221 | 221 | 4 | None | | |
| V | 5 | 6 | 6 | 5 | None | | |
| E | 0 | | | | | | |
| U | 14 | 24 | 24 | 5 | None | | |
| Н | 34 | 55 | 55 | 4 | None | | |
| j | 50+ | 7500 | None | | | | |
| I | 7 | 4 | None | | | | |
| K | 50+ | 480 | 480 | None | | | |
| A | 100+ | 368 | 368 | 4 | None | | |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | | |
|------------------------|----------------|-----------------|-------------------|-----------------------------------|----------------------------|----------------------------------|--|
| Permitted Biologist: | Keith Kwan | | | Permit Numbe | Permit Number: TE-012973-2 | | |
| Sample Date: 1/31/2005 | Township 7 No | rth, Range-10 F | Enst, Section 11, | 14, 15 | | | |
| Start Time: 10:00 | Latitude: 38 2 | 7' 40" N Longh | tude: 120 50' 4 | ייס ₩ | | End Time: 12:00 | |
| Start Air Temp (C): 10 | | - | | | | End Air Temp (C): 13 | |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / | |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates | |
| NI | 21 | 3 | 8 | 8 | None | | |
| N2 | 22 | 30 | 68 | 8 | None | | |
| F | 45 | 700 | 1350 | 8 | None | | |
| G | 28 | 120 | 221 | 8 | None | | |
| V | 0 | | 6 | | None | | |
| Е | 0 | | | | | | |
| U | 8 | 8 | 24 | 8 | None | | |
| Н | 27 | 35 | | | | | |
| J | 50+ | 7500 | | | | | |
| i | 9 | 6 | None | | | | |
| К | 50+ | 480 | 480 | 8 | None | | |
| A | 50+ | 368 | 368 | 8 | None | | |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | | |
|------------------------|----------------|------------------|------------------|-----------------------------------|----------------------------|----------------------------------|--|
| Permitted Biologist: | Keith Kwan | | | Permit Numbe | Permit Number: TE-012973-2 | | |
| Sample Date: 2/14/2005 | Township 7 No | orth, Range 10 E | ast, Section 11, | , 14, 15 | | | |
| Start Time: 9:30 | Latitude: 38 2 | 7' 40" N Longi | tude: 120 50' 4 | יים W | | End Time: 12:00 | |
| Start Air Temp (C): 14 | | | | | | End Air Temp (C): 16 | |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / | |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates | |
| N1 | 16 | 2 | 8 | 9 | None | | |
| N2 | 21 | 68 | 68 | 9 | None | | |
| F | 50+ | 1350 | 1350 | 8 | None | | |
| G | 32 | 221 | 221 | 9 | None | • | |
| ٧ | 0 | | 6 | | None | | |
| E | 0 | • | | | | | |
| U | 01 | 6 | 24 | 9 | None | | |
| Н | 34 | 24 | 55 | 8 | None | | |
| J | 50+ | 4200 | | | | | |
| I | 0 | | | | | | |
| K | 50+ | 120 | 480 | 8 | None | | |
| A | 50+ | 368 | 368 | 8 | None | | |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | | |
|------------------------|----------------|------------------|-------------------|-----------------------------------|---------------------------|----------------------------------|--|
| Permitted Biologist: | Keith Kwan | | | | ermit Number: TE-012973-2 | | |
| Sample Date: 2/28/2005 | Township 7 No | orth, Range 10 I | East, Section 11, | 14, 15 | | _ | |
| Start Time: 9:45 | Latitude: 38 2 | 7' 40" N Longi | tude: 120 50' 4 | 0" W | | End Time: 11:30 | |
| Start Air Temp (C): 14 | | | | | | End Air Temp (C): 16 | |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / | |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates | |
| NI | 9 | 6 | 8 | 9 | None | | |
| N2 | 19 | 24 | - 68 | 9 | None | | |
| F | 50+ | 1350 | 1350 | 9 | None | | |
| G | 26 | 63 | 221 | 9 | None | | |
| V | _6 | 8 | 6 | 10 | None | | |
| E | Dry | | | | | | |
| U | 10 | 6 | 24 | 10 | None | | |
| H | 24 | 32 | 55 | 10 | None | | |
| J | 50+ | 4200 | 7500 | 9 | None | | |
| I | Dry | | 8 | None | | | |
| K | 50+ | 240 | 480 | 9 | None | | |
| A | 50+ | 368 | 368 | 9 | None | | |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | | |
|------------------------|----------------|-----------------|-------------------|-----------------------------------|----------------------------|----------------------------------|--|
| Permitted Biologist: | Keith Kwan | | | | Permit Number: TE-012973-2 | | |
| Sample Date: 3/14/2005 | Township 7 No | rth, Range 10 E | East, Section 11, | 14, 15 | | | |
| Start Time: 9:30 | Latitude: 38 2 | 7' 40" N Loagi | tude: 120 50' 40 | 0" W | | End Time: 11:00 | |
| Start Air Temp (C): 18 | | | | | | End Air Temp (C): 21 | |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / | |
| Pool Number | (c <u>m)</u> | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates | |
| NI | 4 | 1.2 | 8 | 13 | None | | |
| N2 | 10 | 12 | 68 | 12 | None | | |
| F | 50+ | 1350 | 1350 | 11 | None | | |
| G | 18 | 35 | 221 | 12 | None | | |
| V | Dry | | 6 | | | | |
| E | Dry | | | | | | |
| υ | Dry | | 24 | | | | |
| Н | 17 | 24 | 55 | 12 | None | | |
| J | 50+ | 3500 | None | | | | |
| I | Dry | | 8 | | | | |
| K | 50+ | 240 | 480 | 11 | None | | |
| A | 50+ | 300 | 368 | 11 | None | | |

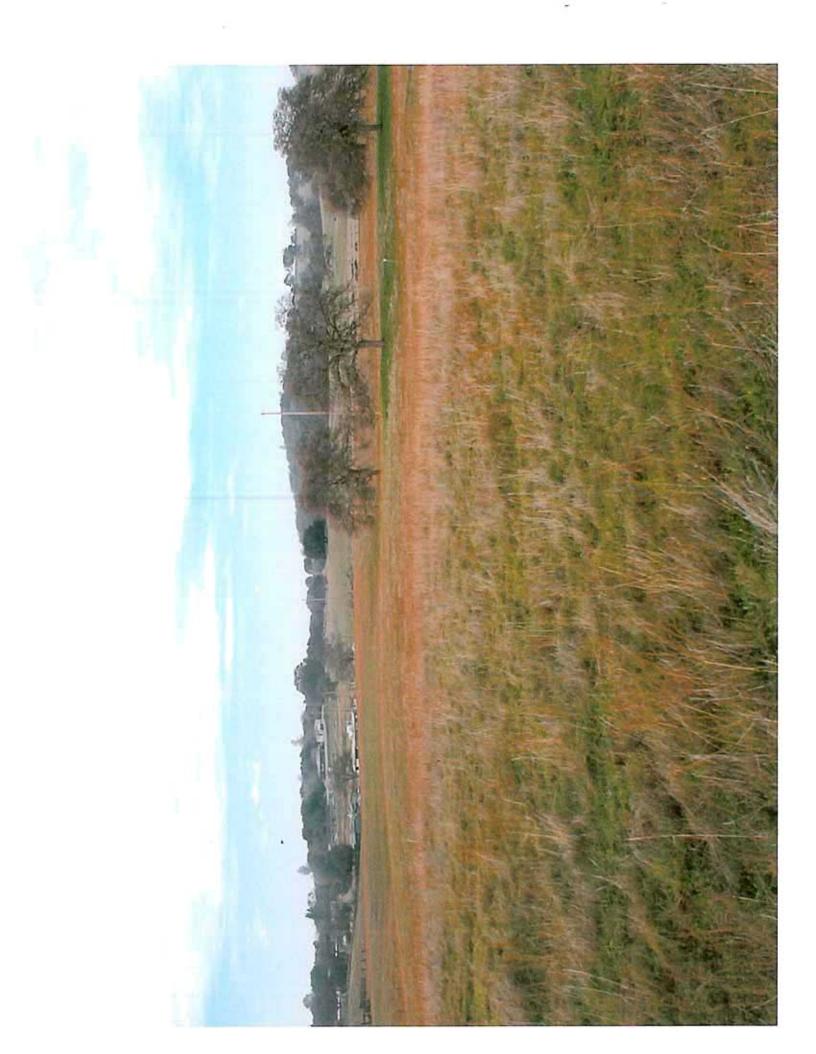
| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | |
|------------------------|----------------|-----------------|-------------------|-----------------------------------|----------------|----------------------------------|
| Permitted Biologist: | Keith Kwan | | | Permit Numbe | г: ТЕ-012973-2 | ! |
| Sample Date: 3/28/2005 | Township 7 No | rth, Range 10 E | Enst, Section 11. | 14, 15 | | |
| Start Time: 9:00 | Latitude: 38 2 | 7' 40" N Longi | tude: 120 50' 4 | 0" W | | End Time: 11:00 |
| Start Air Temp (C): 12 | | | | | | End Air Temp (C): 15 |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates |
| NI | 23 | 2 | 8 | 10 | None | |
| N2 | 25 | 21 | 68 | 10 | None | |
| F | 50+ | 1350 | 1350 | 10 | None | |
| G | 29 | 30 | 221 | 10 | None | |
| V | 10 | 6 | 6 | 10 | None | |
| E | Dry | • | | | | |
| U | 12 | 15 | 24 | 10 | None | |
| Н | 41 | 28 | 55 | 11 | None | |
| J | 50+ | 7500 | None | | | |
| 1 | 5 | 2 | None | | | |
| K | 50+ | 480 | None | | | |
| A | 100+ | 368 | 368 | 10 | None | |

| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | |
|------------------------|-----------------|-----------------|-------------------|-----------------------------------|----------------|----------------------------------|
| Permitted Biologist: | Keith Kwan | | | Permit Numbe | r: TE-012973-2 | 2 |
| Sample Date: 4/12/2005 | Township 7 No | rth, Range 10 F | East, Section 11, | 14, 15 | | |
| Start Time: 10:00 | Latitude: 38 2' | 7' 40" N Longi: | tude: 120 50' 40 | יי0 W | | End Time: 11:30 |
| Start Air Temp (C): 12 | | | | | | End Air Temp (C): 14 |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates |
| NI | 14 | 0.5 | 8 | 12 | None | |
| N2 | 19 | 8 | 68 | 12 | None | |
| F | 50+ | 1350 | 1350 | 12 | None | |
| G | 18 | 16 | 221 | 12 | None | <u> </u> |
| ٧ | 3 | 1 | 6 | 12 | None | |
| E | Dry | | | | | |
| U | 5 | 2 | 24 | 12 | None | |
| Н | 35 | 20 | 55 | 12 | None | |
| J | 50+ | 7500 | 7500 | 12 | None | |
| t | Dry | | 8 | | | |
| K | 50+ | 480 | 480 | 12 | None | |
| A | 100+ | 368 | 368 | 12 | None | |

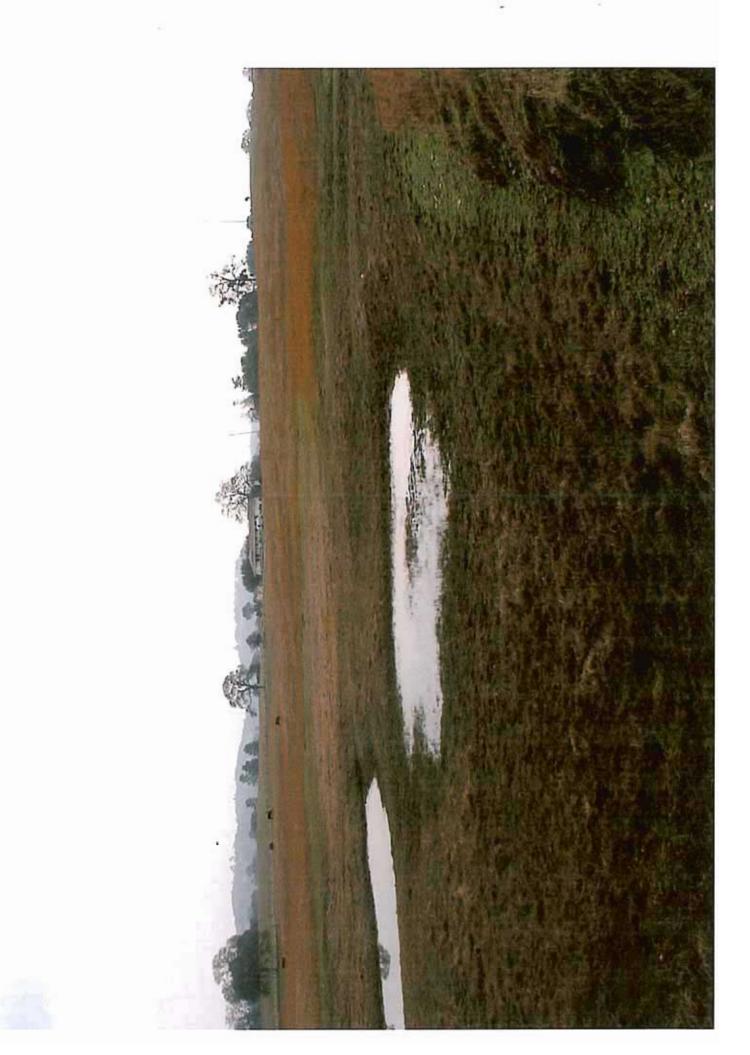
| Site/Project Name: | Miwok Casino | 2004-337 | | County/Quad: Amador / Amador City | | |
|------------------------|----------------|------------------|-------------------|-----------------------------------|--------------|----------------------------------|
| Permitted Biologist: | Keith Kwan | | | Permit Number: TE-012973-2 | | |
| Sample Date: 4/25/2005 | Township 7 No | orth, Range 10 F | East, Section 11. | , 14, 15 | | |
| Start Time: 10:00 | Latitude: 38 2 | 7' 40" N Longi | tude: 120 50' 4 | 0" W | | End Time: 11:00 |
| Start Air Temp (C): 15 | | | | | | End Air Temp (C): 18 |
| | Pool Depth | Surface Area | Max. Surface | Water Temp. | Listed | Comments / Other Invertebrates / |
| Pool Number | (cm) | (sq. m) | Area (sq. m) | (C) | Branchiopods | Vertebrates |
| N1 | Dry | | 8 | | | |
| N2 | Dry | | 68 | | | |
| F | 50+ | 100 | 1350 | 13 | None | |
| G | 26 | 30 | 221 | 12 | None | |
| V | Dry | | 6 | | | |
| Е | Dry | | | | | |
| U | Dry | | 24 | | | |
| Н | Dry | | 55 | | | |
| J | 50+ | 2000 | 7500 | 12 | None | |
| I | Dry | | 8 | | | |
| K | 50+ | 240 | 480 | 12 | None | |
| A | 50+ | 150 | 368 | 12 | None | |

ATTACHMENT B

Representative Site Photographs Taken 22 December 2004











REPORT OF FINDINGS REGARDING FEDERALLY-LISTED BRANCHIOPODS

FOR

MIWOK CASINO

Amador County, California

July 27, 2005

Prepared for:

Analytical Environmental Services

LIST OF ATTACHMENTS

Attachment A – USFWS Vernal Pool Data Sheets Attachment B – Representative Site Photographs 12/22/04

A THACHMENT A

USFWS Vernal Pool Data Sheets

ATTACHMENT B

Representative Site Photographs Taken 22 December 2004