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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

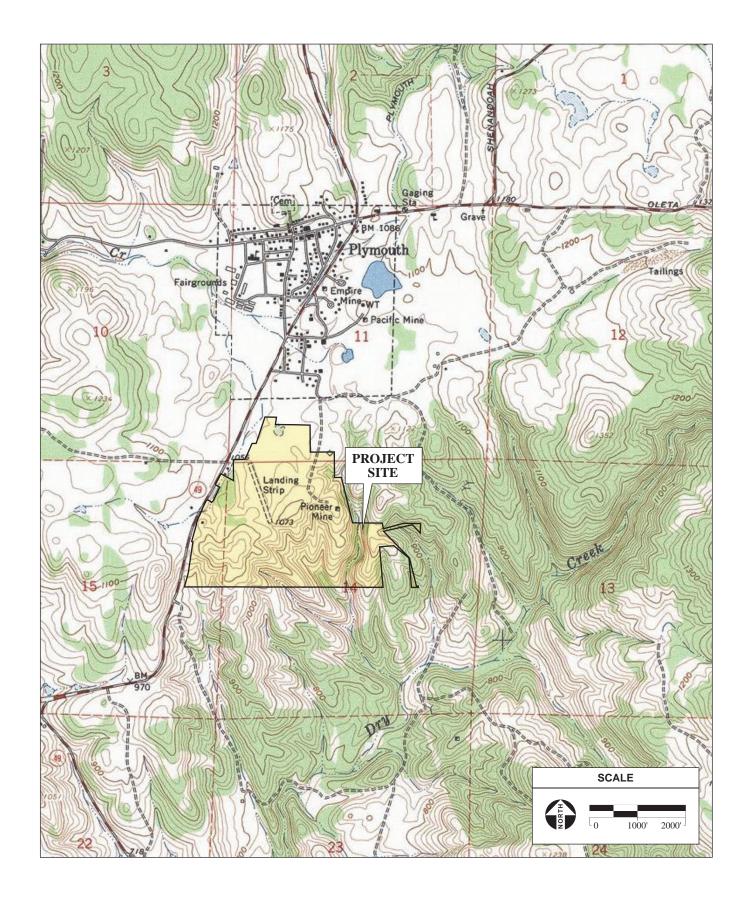
Attachment 5: Report of Findings Regarding Federally-Listed Branchiopods for Miwok Casino, Amador County, California. Prepared by ECORP Consulting, Inc. July 27, 2005

Copy:

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

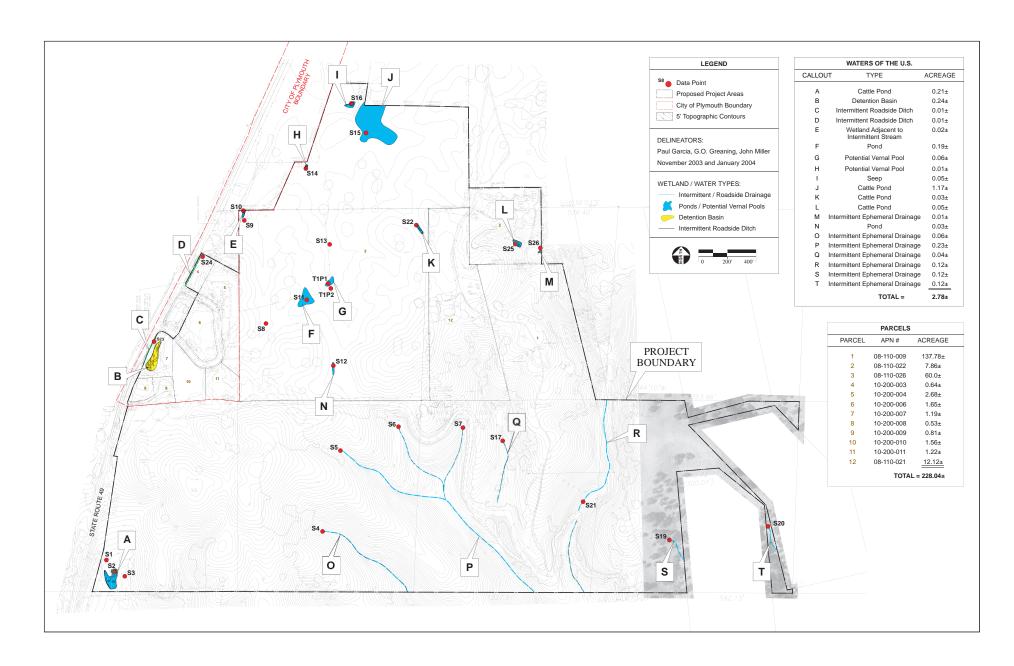
Attachment 1

Project Site Location Map



Attachment 2

Wetland Sampling Locations



Attachment 3

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

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: 10:49 County: Amazon Quad: Amazon Circ
Collector(s): CHEISTOPHER SHEER + STEPHEN STEINGER Permit #: TE-799564-2
Site/Project Name: Zone Casino Pool #: H
Site/Project Name:
Temperature: Water:°C
Pool Depth: Surface Area: W L at time of sampling: 37.0 cm at time of sampling: 6.7/ m x /3.71 m
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) 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

Individuals

Species Observations magnitude (e.g.,		none or estimate # of i 00's, 1000's)	ndividua	els present in terms o	of an orde	er of
Anostracans: (note reproducti	ve statu	as)				
Notostracans: (note reproductive	ve statu	(s)				
Species Observations		•				
Cladocerans:	yes	no	Insects	s: (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 CANADA LEESE S	GAT	Belostomatidae:	yes	no
Other (specify) _				Other (specify)		
Voucher Specimens						
Specimens shall be praccessioned.	reserve	d according to the stan	dards of	the institution in wh	ich they	will be

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 yes
Required color slides and/or photographs for	or the project site are included: no x yes
Date: 01 / 05 / 2007 Time: 11:10	County: AMADOR Quad: AMADOR City
Collector(s): CHEISTOPHER SHEETS + STEP	HEN STRINGER Permit #: TE-799564-2
Site/Project Name: Zone Casino	Pool #:
Township: T > N Range: RIOE	Section: 11, 14, 15 38°27' 40" lat. 120° 50' 40" long.
Temperature: Water: 7.3	5 °C Air://₀• °C
Pool Depth: at time of sampling:8.0 cm	Surface Area: W L at time of sampling: 1.22 m x 1.52 m
estimated maximum: <u>/2.0</u> cm	estimated maximum: 1.83 m x 3.05 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: 6.9 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

Individuals

Species Observations magnitude (e.g.,			f individu	uals present in terms of	of an orde	er of
Anostracans: (note reproducti	ve statı	us)				
Notostracans: (note reproducti	ve statı	ıs)				
Species Observations	s (Optio	onal) :				
Cladocerans:	yes	no	Insec	ts: (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 Canada Leess	SEAT	Belostomatidae: Other (specify)	yes	no
Voucher Specimens						
Specimens shall be praccessioned.	reserve	d according to the st	andards o	f the institution in wh	nich they	will be

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 / 05 / 2007 Time: 11:30 County: Amazon Quad: Amazon City
Collector(s): CHEISTOPHER SHELLY + STEPHEN STRINGER Permit #: TE-799564-2
Site/Project Name: Tone Casino Pool #: J Township: 77N Range: Rio E Section: 11, 14, 15 35° 27' 40" lat. 120° 50' 40" long.
Township: 77N Range: R10 E Section: 11, 14, 15 35° 27' 40" lat. 120° 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 Dissolved Oxygen:ppm or mg/l
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 Insects: (adult or larvae) Conchostracans: yes no Anisoptera: yes no Copepods: yes Zygoptera: no yes no Ostracods Hydrophilidae: yes no yes no Fish yes Dytiscidae: no yes no **Frogs** Corixidae: yes no yes no

Voucher Specimens

Salamanders

Waterfowl

yes

(yes)

· Possibly

no

Other (specify) LASTROPOOA (EMPTY SHELLS) /10'S

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

Notonectidae:

Belostomatidae:

Other (specify)

yes

yes

no

no

Species # Individuals Accession/Catalog # Pool#

NO CANADA LIEESE SCAT

GyRAUlus: p.

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
Date: <u>0/ /05/2007</u> Time: _/2:03 (County: AMADOR Ciry
	Epned Stringer Permit #: 75-799564-2
Site/Project Name: CASIND	Pool #:
Township: 770 Range: Ru E	N W Section: 11, 14, 15 38°27' 40" lat. 120° 25' 40" long.
Temperature: Water:8	.0 °C Air: °C
Pool Depth: at time of sampling: 107.0cm	Surface Area: W L at time of sampling: 7.62 m x 15.24 m
estimated maximum: 2/3,0 cm	estimated maximum: 18,29 m x 11,34 m
Habitat Condition: (circle where appropriate	e)
undisturbed disturbed:	tire tracks garbage discing/plowing
- ungrazed grazed:	cattle horses sheep other Deep Trails To Rwillight 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: _8,2_ 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	
Ostracods	yes	no	Hydrophilidae:	yes	no 🥄	COLEOPTERA ARVA
Fish	yes	no	Dytiscidae:	yes	no /	COLEOPTERA ARVA. 1 - Too Small TO I. D.
Frogs	yes	no	Corixidae:	yes	no	I. D.
Salamanders	yes	no	Notonectidae:	yes	no	
Waterfowl	yes	no	Belostomatidae:	yes	no	/. =
Other (specify) _			Other (specify) $\angle \underline{\mathcal{L}}_{\underline{\mathcal{E}}}$	RIDAE (Commun	WATER STRIDER
			(Hž	MIPTERA)	
						- (г)

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 / 05 / 2007 Time: 12:35 County: Amazor Quad: Amazor City
Collector(s): CHRISTOPHION SHEETY + STEPHEN STRINGER Permit #: TE-799564-2
Site/Project Name: Zone Casind Pool #: 5
Site/Project Name: \(\overline{\substack} \) \(
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 Dissolved Oxygen:ppm or mg/l
pH: 7/8 Turbidity: (secchi disc depth) >60.0 cm or: clear to bottom \(\frac{1}{2} \)
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 / 700	(er 11 mm 2 c	Insects: (adult or larvae)		
Conchostracans:		no (E.D.	Anisoptera:	yes	no
Copepods:	yes	no		Zygoptera:	yes	no
Ostracods	yes	no		Hydrophilidae:	yes	no Colonias
Fish	yes	no		Dytiscidae:	yes	no ()-Too Small to
Frogs	yes	no		Corixidae:	yes	no T.D.
Salamanders	yes	no		Notonectidae:	yes	no
Waterfowl	Yes)	no Canaga	LEETE SE	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 / 05 / 2007 Time: 12:55 County: Amason Quad: Amason Cir
Collector(s): CHRISTOPHEN SHEETY + STEPHEN STRINGER Permit #: TE - 799 564-2
Site/Project Name: Tous Casino Pool #: K
Site/Project Name:
Temperature: Water: 7.7 °C Air: 10.0 °C
Pool Depth: Surface Area: W L at time of sampling: 63.0 cm at time of sampling: 7.62 m x 23.47 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
pH: 7.9 Turbidity: (secchi disc 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	Insects: (adult or larvae)				
Conchostracans	: yes	10 -10'S (EMPTy SHAILS)	Anisoptera:	ves	34441 2'01 - Off		
Copepods:	yes	no	Zygoptera:	yes	no		
Ostracods	yes	no	Hydrophilidae:	Ves	10 - 10'S ADVIT		
Fish	yes	no	Dytiscidae:	yes	no		
Frogs	ves	110 - (CHORUS FROG)	Corixidae:	Ø ₃	no - 10's Apurt		
Salamanders	yes	no	Notonectidae:	Ves	110 - 10'S ADUIT		
Waterfowl	ves	no CANAGA LIESE SERT	Belostomatidae:	yes	no		
Other (specify)	LASTROP	00x - 10'S	Other (specify)		and the		

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: nox yes
Required color slides and/or photographs for the project site are included: no x _ yes
Date: 01 / 05 / 2007 Time: 13:27 County: Amrook Quad: Amrook City
Collector(s): CHRISTOPHEN SHEERTY 4 STEPHEN STRINGER Permit #: TE-799 564-2
Site/Project Name:
Township: 17N Range: RIOE 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 1 at time of sampling: 47.0 cm at time of sampling: 18.29 m x 30.48 m
estimated maximum: 100.0 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 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	110 - 100'S (EMPTY SHEILS)	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 Canaga Geese Scat	Belostomatidae:	yes	no
Other (specify)	LASTRO	POOR -10'S (EMPTY SHELLS)	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	of the 90-day report: no _x yes
Required color slides and/or photographs for	r the project site are included: no _z yes
Date: 01 /05 /2007 Time: /3:42 C	ounty: Amagor Cir
Collector(s): CHRISTOPHER SMEETH) + STEPHE	STRINGER Permit #: 72 - 799564-2
Site/Project Name: Lons Casino	Pool #:
Township: 770 Range: 210 E	N W Section: 11, 14, 15 38°27' 46" lat. 128° 50' 46" long.
Temperature: Water:	°C
Pool Depth: at time of sampling: 23.0 cm	Surface Area: W L at time of sampling: 3.05 m x 12.19 m
estimated maximum: 30,0 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: 7.5 Turbidity: (secchi dis	cc 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:	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) D	DTERA	-00-1

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: nox_ yes
Date: 01 / 05 / 2007 Time: 14:09 County: Amazon Quad: Amazon City
Collector(s): CHRISTOPHEN SHEERS + STEPHEN GRINGER Permit #: TE - 799564-2
Site/Project Name: Tone Casino Pool#: A
Township: $\overline{77}$ Range: $\overline{R_{10}}$ E Section: $\underline{11, 14, 15}$ $\underline{35^{\circ}27'40''}$ lat. $\underline{122^{\circ}31'40''}$ long.
Temperature: Water: 7.5 °C Air: /2.5 °C
Pool Depth: Surface Area: W L at time of sampling: 153.0cm 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 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 disc depth) 33.0 cm or: clear to bottom
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:
· DELO COW IN POND / NOT FAIR SHRIMP HABITAT
. Carris Paus

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

Species Observations magnitude (e.g.,			mate # of individuals present in terms o	f an orde	er of
Anostracans: (note reproductive	ve stati	us)			
Notostracans: (note reproductiv	ve stati	us)			
Species Observations	(Opti	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 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: nox_ yes
Required color slides and/or photographs for the project site are included: no _ × yes
Date: 01 / 05/2007 Time: 14:32 County: Amazor Quad: Amazor Cir
Collector(s): CHE'SNOWER SHEEM? + STEDUES STRINGER Permit #: TE-799364-2
Site/Project Name: Tone Casina Pool #: E
Township: 77N Range: R10 E Section: 11,14,15 35°27'40" lat.120" 20'40" long.
Temperature: Water: 13.6 °C Air: 13.5 °C
Pool Depth: Surface Area: W L 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 Dissolved Oxygen:ppm or mg/l
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 magnitude (e.g.,			estimate # of individuals present in terms o 0's)	f an orde	er of
Anostracans: (note reproductive	ve stat	us)			
Notostracans: (note reproductive	ve stati	us)			
Species Observations	(Opti	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	ves	no	Notonectidae:	ves	nο

Voucher Specimens

Waterfowl

Other (specify)

yes

no

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

Belostomatidae:

Other (specify)

<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: 01/19/2007 Time: 09:59 County: Amagon Quad A
Collector(s): CHRISTOPHEN SHEERT + STEPHEN STRINGER Permit #: 1E - 799564-
Site/Project Name: Loue Casino Pool #: E
Site/Project Name: Zone Casino Pool #: E Township: 77N Range: R10 E Section: 11,14,15 38° 27' 40"lat.120° 50' 41/4 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 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:

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)	<i>y</i> 03	110
			(1 0)		

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 _ w _ yes
Date: 01 / 19 / 2007 Time: 10:10 County: Amazon Quad: Amazon Ciry
Collector(s): CITAISTS PHEN SHEETING + STEPHEN STRINGER Permit #: 1E- 799564-2
Site/Project Name: Tour Casino Pool #: H
Township: $\sqrt{7} \mathcal{N}$ Range: $\mathcal{R}_{10} \mathcal{E}$ Section: $11, 14, 15$ $\frac{35^{\circ}27' + 6''}{25^{\circ}27' + 6''}$ lat. $120^{\circ}50' + 6''$ long.
Temperature: Water: 4.5 °C Air: 19.0 °C
Pool Depth: at time of sampling: 26.0cm Surface Area: at time of sampling: 6.10 m x 10.67 m
estimated maximum: 41.6 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: 3.5 Turbidity: (secchi disc depth) > 60.0 cm or: clear to bottom
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes: - 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:	yes	no			Insect	s: (adult or larvae)			
Conchostracans	: yes	no				Anisoptera:	yes	no	
Copepods:	(Jes)	no	1000'5			Zygoptera:	yes	no	
Ostracods	yes	no				Hydrophilidae:	OES .		1 - Aport
Fish	yes	no				Dytiscidae:	yes	no	ै ^क ि क
Frogs	yes	no				Corixidae:	ØES)	no	1 - ADUIT
Salamanders	yes	no				Notonectidae:	yes	no	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Waterfowl	yes	no	CANADA	bess	SCAT	Belostomatidae:	yes	no	
Other (specify)						Other (specify)	, , , ,	110	
						`			

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: 10:29 County: Amazon City
Collector(s): CARISTOPHEL SHEEK + STEPHEN STEINGER Permit #: 12.799564-2
Site/Project Name: Pool #:
Site/Project Name:
Temperature: Water:°C Air:°C
Pool Depth: Surface Area:
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 Dissolved Oxygen:ppm or mg/l
pH: rurbidity: (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:	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 _x yes
Required color slides and/or photographs for the project site are included: no _×_ yes
Date: 01/19/2007 Time: 40:35 County: Amazon Quad: Amazon C,
Collector(s): CHRISTOPHER SHEEK + STEPHEN STRINGER Permit #: TE-799564-2
Site/Project Name: Tone Casino Pool #: Double W
Township: 77 N Range: Range: Section: #1,19,15 35° 27'40" lat. 120'50'40' long.
Temperature: Water: 5.5 °C Air: 22.0 °C
Pool Depth: Surface Area: W L at time of sampling: 91.6 cm at time of sampling: 22.86 m x 42.67 m
estimated maximum: 183.0 cm estimated maximum: 45.72m x 65.00m
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: 9.0 Turbidity: (secchi disc 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 SMEIL)

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:	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	10'S (BullFROW TABPOLES?	Corixidae:	yes	no
Salamanders	yes	no		Notonectidae:	yes	no
Waterfowl	yes	no	CANADA LEESE SCAT	Belostomatidae:	yes	no
Other (specify)				Other (specify)	OLIGOCHAST	A (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	on completely for each site visit.
This form is being submitted to serve as pa	rt of the 90-day report: no ∠ yes
Required color slides and/or photographs for	or the project site are included: no _
Date: 01 / 19 / 2007 Time: 11:15	County: Amnoon Quad: Amnou City
	PHEN STEINGER Permit #: 15-799564-2
Site/Project Name: Tone Casino	Pool #: W
Township: Tan Range: RioE	N W Section: 11,14,15 35° 27'46"lat.1220"50'46"long.
Temperature: Water:	°C Air: 21. o°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 appropriat	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:	
. DRY	

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

Species Observations magnitude (e.g.,			r estimate # of individuals present in terms o 00's)	f an orde	er of
Anostracans: (note reproducti	ve stati	ıs)			
Notostracans: (note reproductive	ve statı	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:	ves	no

Voucher Specimens

Waterfowl

Other (specify)

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

Belostomatidae:

Other (specify)

Species # Individuals Accession/Catalog # Pool #

Note: Please fill out the required informati	on completely for each site visit.
This form is being submitted to serve as pa	art of the 90-day report: no _× yes
Required color slides and/or photographs f	for the project site are included: no×_ yes
Date: 01 / 19 / 2007 Time: 12:20	County: Amason Quad: Amason Cit
	729HEN STRINGER Permit #: 12- 799564-2
Site/Project Name: CASIND	Pool #:
Township: 77 N Range: Rio E	Pool #: Section: _'', 4, 5
Temperature: Water: _ 3	
Pool Depth: at time of sampling: <u>26.0</u> cm	Surface Area: W L at time of sampling: 12.20 m x 15.24 m
estimated maximum: <u>3.5.0</u> cm	estimated maximum: 18.29 m x 21.34 m
Habitat Condition: (circle where appropriat	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:	
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 10'5	Insects	s: (adult or larvae)		
Conchostracans		no		Anisoptera:	ves	no
Copepods:	yes	no		Zygoptera:	•	-
Ostracods	yes	no		Hydrophilidae:	yes	no
Fish	ves	no			yes	no
Frogs	yes			Dytiscidae:	yes	no
Salamanders	•	no		Corixidae:	yes	no
	yes	no		Notonectidae:	ves	no
Waterfowl	COB	no Canada Lee	ESE SCAP	Belostomatidae:	ves	no
Other (specify)				Other (specify)		(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 #

Note: Please fill out the required informati	on completely for each site visit.
This form is being submitted to serve as pa	art of the 90-day report: no yes
Required color slides and/or photographs f	or the project site are included: no yes
	County: Amson Quad: Amson Ciry
Collector(s): CHRISTOPHEN SHEWIZ + STEP	MEN STRINGER Permit #: TE - 799 564-2
Site/Project Name: Tone Casino	Pool #: F
Township: 17 N Range: R. E	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: 100-0 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 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: 8.6 Turbidity: (secchi di	sc depth) > 60.0 cm or: clear to bottom ×
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
PHOTO'S - 54,55,56,53	

Note: Please fill out the required i	information completely fo	r each site visit
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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 In	sects: (adult or larvae)		
Conchostracans:	ves	no 100's (EMPTY SHELLS)	Anisoptera:	yes	n o
Copepods:	yes	no	Zygoptera:	•	no
Ostracods	yes	no	Hydrophilidae:	yes	no
Fish	yes	no		yes	no
Frogs	yes	no	Dytiscidae:	yes	no
Salamanders	yes	no	Corixidae:	yes	no
Waterfowl	•	NO CAMPOR LEEST SCAT	Notonectidae:	yes	no
Other (specify)	(yes)	no Canada Geese Scat	Delosioniatidae:	yes	no
omer (specify)			Other (specify) _ c	licions	- 1015

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 yes
Date: 01 /19 /2007 Time: 13:30 County: Amagon Quad: Amagon Cir
Date: 91 /19 /2007 Time: 13:30 County: AMAGOR Quad: AMAGOR City Collector(s): CHRISTOPHER PRESENT STRINGER Permit #: 75-799 564-2
Site/Project Name: Lone Casino Pool #: K
Township: 17N Range: Kib & Section: 11,14, 15 38°27'46" lat.120° 50' 45 long.
Temperature: Water: 7.5 °C Air: 23.5 °C
Pool Depth: at time of sampling: 57.0 cm Surface Area: at time of sampling: 6.10 m x 22.86 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: 9.0 Turbidity: (secchi disc depth) 35.0 cm or: clear to bottom
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:
Protois = 58,57,60,61

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 Insect	s: (adult or larvae)			
Conchostracans	· yes	no - Empty Shalls - (10's)	Anisoptera:	yes	no	
Copepods:	yes	no	Zygoptera:	yes	no	
Ostracods	yes	no	Hydrophilidae:	yes	no	
Fish	yes	no	Dytiscidae:	yes	no	
Frogs	ØÊS)	no-c 402 45 (2-3)	Corixidae:	yes	no	
Salamanders	yes	no	Notonectidae:	yes	no	
Waterfowl	yes	NO CANADA GEESE SEAF	Belostomatidae:	yes	no	
Other (specify)		<u></u>	Other (specify)	CHIRONOMI	0.4e =	1015
·				CULICIOAE	-	2101

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 / 200 7 Time: 13:55 County: Amazon Quad: Amazon Ciry
Collector(s): CHEISTOPHEN SHEETING & STEINGER Permit #: 1E- 799564-2
Site/Project Name: Lowe Casind Pool#: N Township: 1341 Pange: Pan & Santi
Township: 17N Range: 210 E Section: 11,14,15 38°27'40" lat.120" 50'40" long.
Temperature: Water:°C Air:23,5 °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
pH: Turbidity: (secchi disc depth)cm or: clear to bottom
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:
·DRY

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

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

Cladocerans:	yes	no	Insects: (adult or larvae)	
Conchostracans:	yes	no	A minomtone.	n o
Copepods:	yes	no	Zygoptera: yes	no
Ostracods	yes	no	Hydrophilidae: yes	no
Fish	yes	no	Dytiscidae: yes	no no
Frogs	yes	no	Corixidae: yes	no
Salamanders	yes	no	Notonectidae: yes	no
Waterfowl	yes	no	Belostomatidae: yes	no
Other (specify) _			Other (specify)	110

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: noX_ yes
Date: 01 / 19 / 2007 Time: 14:20 County: AMADOR Quad: AMADOR City
Date: 01 / 19 / 2007 Time: 14:20 County: AMADOR Quad: AMADOR City Collector(s): CHRISTOPHER STEPHEN STRINGER Permit #: TE - 799 564-2
Site/Project Name: Font Casino Pool #: A
Township: 770 Range: Rose Section: 11, 14, 15 38'27' 40' lat. 120' 50' 40' 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: 2/3/4 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) 30.0 cm or: clear to bottom
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes: . Not a JERNAL POOL / PERENNIAL . CATTLE POND
· CATTLE PONO

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	Anicontous	
Copepods:	yes	no	7xxxxxxxxx	no
Ostracods	yes	no	Hydrophilidae: yes	no
Fish	yes	no	Dytiscidae: yes	no no
Frogs	yes	no	Corixidae: yes	no
Salamanders	yes	no	Notonectidae: yes	no
Waterfowl	yes	no	Belostomatidae: yes	no
Other (specify) _			Other (specify)	-10

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 / 2017 Time: 10:01 County: Amason Quad: Amason Ciry
Collector(s): CHRISTOPHER SHEEKY + STEPHEN STRINGER Permit #: TE-799564-2
Site/Project Name: FONE Casino Pool #: E
Site/Project Name: FONE CASINO Pool #: E Township: 77 N Range: Rio E Section: 11, 14, 15 35° 21'40" lat. 120° 20'40" 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:cm 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: 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
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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	no	Insects: (adult or larvae)		
yes	no		Troo	
yes	no		•	no
yes	no		•	no
yes	no	· · · · · · · · · · · · · · · · · · ·	•	no
yes	no	•	•	no
yes	no	· · · · · · · · · · · · · · · · · · ·	•	no
yes	no		•	no no
		Other (specify)	<i>y</i> 03	110
	yes yes yes yes yes yes	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 #

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 × yes
Required color slides and/or photographs	for the project site are included: no yes
Date: <u>02 / 02 / 2007</u> Time: <u>/0: 23</u>	County: Amason Quad: Amason Cir
	04EN STRINGER Permit #: 1E-799564-2
Site/Project Name: CASINO	Pool #:
Range. 700 E	Section: 11, 14, 15 38° 27' 46" lat. 126° 25' 40" long.
Temperature: Water: 10-	2 °C Air: _/3.⊘ °C
Pool Depth:	Surface Area: W L at time of sampling:
estimated maximum: 41.0 cm	estimated maximum: 9.14 m x 16.76m
Habitat Condition: (circle where appropria	te)
- 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: 9.4 Turbidity: (secchi d	isc 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: (es	no logis	Insects: (adult or larvae	a)
Conchostracans: yes	no	Anisoptera:	,
Copepods:	no /000'S	Zygoptera:	
Ostracods yes	no	Hydrophilidae:	yes no
Fish yes	no	Dytiscidae:	yes no O-Abult
Frogs yes	no	Corixidae:	yes no
Salamanders yes	no		yes no
Waterfowl Ves	no Camara Goe	Notonectidae:	yes no
		Belostomatidae.	
Other (specify) 1 (Ast	HEIMINITIES - 100'S	other (specify)	Culieinas - 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 informat	ion completely for each site visit.
This form is being submitted to serve as p	art of the 90-day report: no _×_ yes
	for the project site are included: no _×_ yes
Date: <u>02 / 02 / 2007</u> Time: <u>10:36</u>	County: Amagon Quad: Amagon Cir
Collector(s): (HRISTOPHER JHZERTY + JTE	EPHEN STRINGER Permit #: 78-799564-2
Site/Project Name: Casino	Pool #:
Township: 77N Range: Range	Section: 11, 14, 15 35° 27' 45" lat. 122° 55'46" long.
Temperature: Water:	°C Air: <u>/3.0</u> °C
Pool Depth: at time of sampling:cm	Surface Area:
estimated maximum:cm	estimated maximum:m xm
Habitat Condition: (circle where appropria	te)
- 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 d	isc depth)cm or: clear to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
NR U	

Note: Please fill out the required	information of	completely for	each site visit.
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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:	Vec	
Copepods:	yes	no	Zygoptera:	yes yes	no
Ostracods	yes	no	Hydrophilidae:	yes	no 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 informat	ion completely for each site visit.
This form is being submitted to serve as p	art of the 90-day report: nox_ yes
Required color slides and/or photographs	for the project site are included: no×_ yes
Date: 02 / 02 / 2007 Time: 10:48	County: Amsoon Quad: Amsoon City
Collector(s): CHRISTOPHER SITEBILLY + STE	County: AMAGON Quad: AMAGON City Ephen STRINGER Permit #: 15-799564-2
Site/Project Name: Casino	Pool #: 3
Township: 77N Range: 210E	Pool #:
Temperature: Water: /2	
Pool Depth:	Surface Area:
at time of sampling: 76.0 cm	1 8 <u></u> m n <u></u> m
estimated maximum: 1,83 cm	estimated maximum: 45.72 m x U5.00m
Habitat Condition: (circle where appropriate	te)
- undisturbed:	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 d	isc depth) 38.0 cm or: clear to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
· PHOTO'S 1-3 (FROG)	
· CATTLE POND (URINE SMOII)	
. Small Pono Has Formed (So.	ARCA) SERAPATOR B. DO.

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:	VED	no	100015	Inse	ects: (adult or larvae)		
Conchostracans:	yes	no		11100	Anisoptera:		
Copepods:	es es	no	44 -		<u>-</u>	yes	no
	(4 C)	no	1000, 2		Zygoptera:	yes	no
Ostracods	yes	no			Hydrophilidae:	•	
Fish	•					yes	no
	yes	no			Dytiscidae:	yes	no
Frogs	yes)	no	10"5		Corixidae:	y y y y	110
Salamanders			18.3		Corixidae:	yes	no
Salamanders	yes	no			Notonectidae:	MAG	
Waterfowl	res	no	CAUADA GEESE	٠		yes	no
	003/	ш	CAUADA GEESE)CAT	Belostomatidae:	ves	no
Other (specify)_		· -			Other (specify)	Culicion	

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 informati	on completely for each site visit.
This form is being submitted to serve as pa	art of the 90-day report: no _×_ yes
Required color slides and/or photographs f	or the project site are included: no _X yes
Date: 02 / 02 / 2007 Time: //:/8	County: Amsoon Quad: Amsoon Cir
Collector(s): CHRISTOPHER (HEERS + STEP	HEN STRINGER Permit #: 12-799564-2
Site/Project Name: Tons Casino	Pool #:
Township: $7 = 10$ Range: $2 = 10$	Pool #:
	°C Air: <u>/5,0</u> °C
Pool Depth: at time of sampling:cm	Surface Area: ω μ at time of sampling: μ μ μ μ μ
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	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	no	Insects: (adult or larvae)		
Conchostracans:	yes	no	Anisoptera:	Vec	
Copepods:	yes	no	Zygoptera:	yes	no
Ostracods	yes	no	Hydrophilidae:	yes	no
Fish	yes	no	Dytiscidae:	yes yes	no
Frogs	yes	no	Corixidae:	yes	no no
Salamanders	yes	no	Notonectidae:	yes	no
Waterfowl	yes	no	Belostomatidae:	yes	no
Other (specify) _	· · · · · · · · · · · · · · · · · · ·		Other (specify)		110

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	or the project site are included: no×_ yes
Date: 02 / 02 / 2007 Time: 11,59	County: AMADOR Quad: AMAOON CIT
Collector(s): CHRISTOPHER SMEETS & S	TEPHEN STEINLEN Permit #: 1E-799 564-2
Site/Project Name: Casino	Pool #:
Township: 770 Range: $R_{10}E$	Pool #: K N W Section: 11, 14, 15 38° 27' 40" lat. 120' 50' 40" long.
Temperature: Water: 9.	8 °C Air: <u>/5; 6</u> °C
Pool Depth: at time of sampling:cm	Surface Area: by at time of sampling: 4.57 m x 21.34 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 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: 3.6 Turbidity: (secchi dis	c depth)_23.0 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):

Frogs yes no Dytiscidae: yes no Corixidae: yes no	2-4801-5
Salamanders yes no Notonectidae: yes no	
Waterfowl YES no CANAGA LIGHT Season Belostomatidae: yes no	
Other (specify) Other (specify) CULICIDAE	

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: 12:35 County: Amon Quad: Amon Cit
Collector(s): CHRISTOPHER STEPHEN STRINLOR Permit #: 12-799564-2
Site/Project Name: Pool #: Pool #:
Site/Project Name: Tour Casing Pool #: [5] Township: 17 N Range: Rio E Section: 11, 14, 15 35" 27' 46" lat. 126 55'46" long.
Temperature: Water: 13.2 °C Air: 2010 °C
Pool Depth: Surface Area: Surface Area: at time of sampling: 24.0 cm at time of sampling: 10.66 m x 13.72m
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: 8.1 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 1000 /s	Insects: (adult or larvae)			
Conchostracans:	yes	no	Anisoptera:	ves	20	
Copepods:	ves	ر دوور no		•	no	
Ostracods			Zygoptera:	yes	no	
	yes	no	Hydrophilidae:	yes	no	
Fish	yes	no	Dytiscidae:	yes	no	
Frogs	yes	no	Corixidae:	• _	_	
Salamanders	•			Tes	no	1 - ARUST
the state of the s	yes	no	Notonectidae:	yes	no	
Waterfowl	yes	no	Belostomatidae:	•		
Other (specify) A	мен, <i>ро</i> ДА	٠ ام⊘ن	Other (specify)	yes	no	
			cuter (speerly)			

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 informati	on completely for each site visit.
This form is being submitted to serve as pa	ert of the 90-day report: no _×_ yes
Required color slides and/or photographs f	or the project site are included: no× yes
Date: 02 / 02 / 2007 Time: /3:10	County: Amson Quad: Amson Cir-
Collector(s): CHRISTOPHER SHEET + ST	EPHEN STEINGER Permit #: 12 - 799564-2
Site/Project Name: Casino	Pool #: _ F
Township: 77N Range: Range	Pool #:
Temperature: Water: 7.	8 °C Air: <u>24.5 °C</u>
Pool Depth: at time of sampling: 42.0 cm	Surface Area: ω L at time of sampling: $13.72 \text{ m x} 25.91 \text{ m}$
estimated maximum: 10010 cm	estimated maximum: 30.48 m x 51.82 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./ 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 3	Insects: (adult or larvae)		
Conchostracans:	yes	no		Anisoptera:	yes	no
Copepods:	YES	no	1 000,7	Zygoptera:	yes	no
Ostracods	yes	no		Hydrophilidae:	yes	no
Fish	yes	no		Dytiscidae:	yes	no
Frogs Salamanders	yes	no		Corixidae:	ves	271 40 - 2101 ON
Waterfowl	yes	no		Notonectidae:	ves	7120A-(1) ON
Other (specify)	yes	no	(Damaiara)	Belostomatidae:	yes	no
	, USER	O III/A	(Brance and)	Other (specify)	CULICIDAD	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 × yes
Required color slides and/or photographs for the project site are included: no yes
Date: 02 / 02 / 2007 Time: 13:20 County: Amoon Quad: Amoon Cir.
Collector(s): CHRISTOPHEN STEPHEN STEINGER Permit #: 1E-799564-2
Site/Project Name: LONE CASIND Pool #: N
Township: $\sqrt{7}$ Range: $Range$: Section: $\frac{11}{14,15}$ $\frac{1}{38^{\circ}}$ $\frac{1}{27^{\circ}}$ $\frac{1}{40^{\circ}}$ lat. $\frac{1}{120^{\circ}}$ $\frac{1}{20^{\circ}}$ long.
Temperature: Water:°C Air:°C
Pool Depth: Surface Area: W L at time of sampling: m x m
estimated maximum:cm estimated maximum:m xm
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: Turbidity: (secchi disc depth)cm or: clear to bottom
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:
. The U

Note: Please fill out	the rec	quired info	rmation completely for each site visit.		
Species Observation magnitude (e.g.,	s: state 10's, 1	e none or es 100's, 1000'	stimate # of individuals present in terms o	f an ord	ler of
Anostracans: (note reproducti	ve stat	tus)			
Notostracans: (note reproducti	ve stat	us)			
Species Observations	(Opti	onal) :			
Cladocerans: Conchostracans:	yes	no	Insects: (adult or larvae)		
Copepods:	yes yes	no no	Anisoptera:	yes	no
Ostracods	yes	no	Zygoptera: Hydrophilidae:	yes	no
Fish	yes	no	Dytiscidae:	yes	no
Frogs	yes	no	Corixidae:	yes yes	no
Salamanders	yes	no	Notonectidae:	yes	no no
Waterfowl	yes	no	Belostomatidae:	ves	no
Other (specify)			Other (specify)	J 0.2	110

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 informati	on completely for each site visit.
This form is being submitted to serve as pa	art of the 90-day report: no _×_ yes
Required color slides and/or photographs i	for the project site are included: no yes
Date: 02 / 02 / 2007 Time: _/3:47	County: Amsoon City
Collector(s): CHRISTOPHEN SHOEN, + ST	Epned STRINGER Permit #: 1E-799564-2
Township: 172 Range: R. E	Pool #: _A N W Section: _11,14,15 38 27'40" lat.120' 50'40" long.
Temperature: Water: 7.	
Pool Depth: at time of sampling: /22.0 cm	Surface Area: ω L 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	te)
	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: 8-5 Turbidity: (secchi di	isc depth) 30,0 cm or: clear to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
. NOT A VERNAL POOL / PERENNIAL	
CATILE D.	

species Observations magnitude (e.g.,	s: state 10's, 1	none or est 00's, 1000's	timate # of individuals present in terms of a	n ord	er of
Anostracans: (note reproducti	ve stat	us)			
Notostracans:					
(note reproductive	ve stat	us)			
pecies Observations	(Opti	onal):			
Cladocerans:	yes	no	Insects: (adult or larvae)		
Conchostracans:	yes	no	Anicontous.	yes	200
Copepods:	yes	no	7	yes	no no
Ostracods	yes	no	Hyrdnauh !!! 1	yes	no
Fish	yes	no	Dydialida	yes	
Frogs	yes	no	Combuida	yes	no no
Salamanders	yes	no	Notomosti de	yes	no
Waterfowl	yes	no	Dologtomat'.	yes	no
Other (specify)			Other (specify)	, 03	110

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: 02 / 15 / 2007 Time: 08:03 County: Amagon Ouad: Amagon
Collector(s): Citra stophen Sheen Permit #: 15 - 399 51 40 2
Site/Project Name: Love CASING Pool #:
Section: 11,14,15 38 27 46" lat./26 50 46 long.
Temperature: Water: 6.4 °C Air: 10.0 °C
Pool Depth: Surface Area: W
at time of sampling: 9.0 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 Dissolved Oxygen:ppm or mg/l
pH: 8.0 Turbidity: (secchi disc depth) >60.0 cm or: clear to bottom ×
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:
· PHOTO - 449

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

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 informa	tion completely for each site visit.
This form is being submitted to serve as p	part of the 90-day report: no yes
	for the project site are included: no _X _yes
Date: 02 / 15 / 2007 Time: 08:44	County: Amapon Ouad: Amapon Co
Collector(s): CHRISTOPHER SHEET,	Permit #: 7E - 799564-2
Site/Project Name: _ Zone Casind	Pool #: // W
Township: 77N Range: Range	Section: 11, 14, 15 38°27'40" lat. 120° \$2'40" long.
	2, 8 °C Air: 10.0 °C
Pool Depth: at time of sampling: <u>39.0</u> cm	m x 75.24 m
estimated maximum: 4/1.0 cm	estimated maximum: 9.14 m x 16.76 m
Habitat Condition: (circle where appropria	te)
- 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	isc depth) >60.0 cm or: clear to bottom X
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
· PHOTO - #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: yes Conchostracans: yes Copepods: yes Ostracods yes Fish yes Frogs yes Salamanders yes Waterfowl yes Other (specify)	no reer's 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 yes	no no no no no no
		Hydracarina -	(A	Hand)

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 informat	ion completely for each site visit.
This form is being submitted to serve as p	art of the 90-day report: no _×_ yes
	for the project site are included: no _x _ yes
Date: 02 / 15 / 2007 Time: 09.20	County: Lacar
Collector(s): CHRISTOPHER SHEET	Permit #: \(\int - \frac{7}{9}\)564-2
Site/Project Name: FONE CASIND	
	Section: 17, 14, 15 38 27 40" lat. 126° 50 46" long.
Temperature: Water:	<u>/</u> °C Air: <u>1010</u> °C
Pool Depth:	Surface Area: W L
at time of sampling: _9.5 cm	at time of sampling: 1.52 m x 2.44 m
estimated maximum: 12-0 cm	estimated maximum: 1,93 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 house
	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 dis	sc depth) >6 9.0cm or: clear to bottom 🔀
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
· PHOTO = 7 2 , #3. #4	

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):

Anisoptera: yes no Zygoptera: yes no Hydrophilidae: yes no Dytiscidae: yes no Corixidae: yes no Notonectidae: yes no Belostomatidae: yes no Other (specify) Colcoptent - larves (po Smer, po Id.) - (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	tion completely for each site visit.
This form is being submitted to serve as p	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: America Quad: America Cir
Collector(s): CHRISTOPHOL SHEETING	Permit #: 1£ - 799564-2
Site/Project Name: Zone Casino	Pool #:
Township: 72N Range: Range	Section: 11, 14, 15 38° 27' 46' lat. 128° 59' 46' long.
Temperature: Water:	.3 °C Air: <u>/5</u> .⇔ °C
Pool Depth: at time of sampling: _/52,0 cm	Surface Area: L at time of sampling: 36.58 m x 60.96 m
estimated maximum: /83.0 cm	estimated maximum: 45,72 m x 65.00 m
Habitat Condition: (circle where appropria	te)
- 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	isc depth) 31,0 cm or: clear to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
· Protos #5, #6, #7, #8, #9, #10, #1/,	#12, #13, #14, #15

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 load's Conchostracans: yes no Copepods: Yes no load's Ostracods yes no Fish yes no Frogs Yes no load's Salamanders yes no Waterfowl yes no Other (specify) Camada Goess Sat	Insects: (adult or larvae) Anisoptera: Zygoptera: Hydrophilidae: Dytiscidae: Corixidae: Notonectidae: Belostomatidae: Other (specify)	yes yes yes yes yes yes yes	no
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Voucher Specimens

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

Species

Individuals

Accession/Catalog #

L

Note: Please fill out the requ	ired informat	ion completely	for each site visi	t.
This form is being submitted				
Required color slides and/or				
Date: 02 /15 /2007 Time	: 10:43	County: A.	laan.	01
Collector(s): CHRISTOPHEL	SHEELEY 3	<u> </u>	Permit #: 7.	= 799564-2
Site/Project Name:	CASINO		·	Pool #: \angle
Site/Project Name: Fone Township: 771 Ra	ange: Rio E	Section:	N 14.15 38° 27'	W 40" lat.120° 50' 40"long
Temperature:	Water: 9.	<u>₹</u> °C	Air: /7.5	 _°C
Pool Depth:				
		Surface Area:	W	1
at time of sampling: 122				
estimated maximum: 213	<u>o</u> cm	estimated max	imum: <u>/8,29</u>	m x <u>21.34</u> m
Habitat Condition: (circle wh	ere appropriat	e)		
- undisturbed	disturbed:	tire tracks	garbage o	liscing/plowing
- ungrazed	grazed:	cattle horses	sheep other moderate	
- land use of habitat:			moderate	heavy
(Optional) Water Chemistry D	ata			
Alkalinity (total):	ppm or mg/l	Conduc	tivity:uN	ИНО
Dissolved NH ₄ :ppt o	or ppm	Dissolved Oxyg	gen:ppm	or mg/l
pH: 7.8 Turbid	ity: (secchi dis	sc depth) 44.0	cm <u>or</u> : clear to b	oottom
Salinity :ppt or ppn			Solids (TDS):_	
Notes:				
1 PHOTO'S - # 16, # 17, #	118			
, Pitoro -> #19				
(FROG)		1		

Note: Please fill out the required	information completely for each site visit.
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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 lop'l	Insector (adult	
Conchostracans	ves	no	Insects: (adult or larvae)	
Copepods:	(yes)	no 10812	Anisoptera: yes	n
Ostracods	yes	no	Zygoptera: yes	n
Fish	yes	no	Hydrophilidae: yes	n
Frogs	yes>	no 10's	Dytiscidae: yes	n
Salamanders	yes	no	Corixidae: yes	n
Waterfowl	yes	no	Notonectidae: yes	n
Other (specify)	,	110	Belostomatidae: yes	n
_			Other (specify)	
			Calacas	_

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: 11:20 County: Amazon Quad: Amazon City
Collector(s): CHRISTOPHEN SHEET
Site/Project Name: Font Casind Pool #: K
Township: 77 Range: Range: Rose Section: 11, 14, 15 38° 27'40" lat. 120° 50' 41' long.
Temperature: Water:/3.o °C Air:/9.2 °C
Pool Depth: Surface Area: W 1 at time of sampling: 122,0 cm at time of sampling: 10.67 m x 25,91 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: 7.7 Turbidity: (secchi disc depth) 19,0 cm or: clear to bottom
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:
· Protos - #20, #21, #22, #23, #24, #25
. Photo's -> #26, #20, 6128 (Horass)

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: Conchostracans Copepods: Ostracods Fish Frogs Salamanders Waterfowl Other (specify)	yes yes yes yes yes yes		· · · · · · · · · · · · · · · · · · ·	Anisoptera: Zygoptera: Hydrophilidae: Dytiscidae: Corixidae: Notonectidae: Belostomatidae: Other (specify)	yes yes yes yes yes yes	no no no no Too Small no no no no	~)
Voucher Specimens	GASTPUP!	wheat - Ac	Sp 101,	. Goreigas -> st	יפין ספיג	-() (AOUIT)	

-> Paysions -10's (SHOUL)

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

Species

Individuals

Accession/Catalog #

Note: Please fill out the required informat	ion completely for each site visit.
This form is being submitted to serve as pa	art 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: 12:28	County: Amanon Quad: Amanon Co
Collector(s): CHRISTOPHER SHOEM	Permit #: 12-799564-2
Site/Project Name: Tans Casino	Pool #:
Township: 170 Range: Rio E	Pool #: A N W Section: 11, 14, 15 38°27'40" lat.120' 50'40" long.
Temperature: Water:	7 °C Air: _ / ? - 4 °C
Pool Depth: at time of sampling: /6? Ocm	11 x 284 16 M
	estimated maximum: 27.43 m x 30.48 m
Habitat Condition: (circle where appropriat	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: 8.6 Turbidity: (secchi di	sc depth) 25.0 cm or: clear to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
Propos = #20, #30, #31, #32	
· Corrie Pono	

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):

Conchostracans: yes no	Insects: (adult or larvae) Anisoptera: Zygoptera: Hydrophilidae: Dytiscidae: Corixidae: Notonectidae: Belostomatidae: Other (specify)	yes no	- 100') (LARVAE) - 100') (LARVAE)
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Voucher Specimens

· Exercises - straper (nout) - 10's
· Exercises - 10's (Lacune)
· Amorgonous and 1008: (ADITI)

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 _x _ yes
Required color slides and/or photographs for the project site are included: no × ye
Date: 02 1 15 1207 Time: 13:05 County: Amspor Quad: Amson
Collector(s): CHRISTOPHER SHEERS Permit #: 1E - 799564-
Site/Project Name: Pool #: N
Township: 170 Range: $R_{10} \in Section$: $\frac{11,14,15}{25,27,46''}$ lat. $\frac{120^{\circ} 50'45'}{25'45'}$ lon
Temperature: Water: 14.4 °C Air: 18.0 °C
Pool Depth: Surface Area:
at time of sampling: 24.0 cm at time of sampling: 3.66 m x 16.76 m
estimated maximum: 30.0 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 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) >60.0cm or: clear to bottom ×
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:
· Protel #33, #34, #35, #36, #33, #38, #39
, 733, 439

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 loos Conchostracans: yes no Copepods: yes no Ostracods yes no Fish yes no Frogs yes no Salamanders yes no Waterfowl yes no Other (specify)	Hydrophilidae: Dytiscidae: Corixidae: Notonectidae:	yes yes yes yes yes yes yes yes	no no no - no no no no	/ Abuit
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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	tion completely for each site visit.
This form is being submitted to serve as p	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: 02 /15 /2007 Time: 13:40	County: Amson Quad: Amson Cir
Collector(s): CHRISTOPHER SMEETING	Permit #: 1E-799564-2
Site/Project Name: CASING	Pool #: F
Township: 17-N Range: Ris E	Pool #: F N Section: 11, 14, 15 38° 27' 40" lat. 120' 25' 40" long.
Temperature: Water: 15	.8 °C Air: 18.0 °C
Pool Depth: at time of sampling: 88.0 cm	Surface Area:
estimated maximum 600.0 cm	estimated maximum: 30.48 m x 51.82m
Habitat Condition: (circle where appropria	
- undisturbed disturbed:	tire tracks garbage discing/plowing
- ungrazed grazed:	cattle horses sheep other light moderate heavy
- land use of habitat:	The same of the sa
(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) > ఈ & cm or: clear to bottom X
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
- 940To's - #40, #41, #42, #4	3 , ≠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):

Cladocerans: Yes no 1860 Conchostracans: Yes no 1860 Copepods: Yes no 1860 Ostracods yes no Fish yes no Frogs Yes no 1861 Salamanders yes no Waterfowl yes no Other (specify)	Anisoptera: Zygoptera: Hydrophilidae: Dytiscidae: Corixidae: Notonectidae: Belostomatidae: Other (specify)	yes yes yes yes yes yes yes	Liesliutias (VSP. 100 - ADUITI (101) 100 - ADUITI (101)
Voucher Specimens	· Culicipas -	109.7	(IARVAG)

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

Species

Individuals

Accession/Catalog #

rote. I lease fill out the required information completely for each	h site visit.
This form is being submitted to serve as part of the 90-day repor	
Required color slides and/or photographs for the project site are	included: no _×_ yes
Date: 02 /15 /2007 Time: 14:20 County: Amazon	Ounds A
Collector(s): CHRISTOPHEN SHEETING PE	rmit #: 1E - 799564-2
Site/Project Name:	Pool #:
Site/Project Name:	38° 27' 46" lat.132 46" long.
Temperature: Water:°C Air: _	
Pool Depth:	a A
at time of sampling: 32.0 cm at time of sampling:	W L 15-24 m x 19.81 m
estimated maximum: 35.0 cm estimated maximum	: <u>18.29 m x 21.34 m</u>
Habitat Condition: (circle where appropriate)	
- undisturbed disturbed: tire tracks garba	ge discing/plowing
- ungrazed grazed: cattle horses sheep light moder	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: 7.2 Turbidity: (secchi disc depth) ≥60.0 cm or	: clear to bottom _x
Salinity:ppt or ppm Total Dissolved Solid	s (TDS):ppm
Notes:	
PHOTO'S - # 45-, #46	A Company of the Comp

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):

Other (specify)	Cladocerans: yes Conchostracans: yes Copepods: yes Ostracods yes Fish yes Frogs yes Salamanders yes Waterfowl yes Other (specify)	no too 'x no no too 'x 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 yes yes	no n
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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 City
Collector(s): Cheistophen Sman Permit #: TE-799564-2
Site/Project Name: Zone Casino Pool#: W
Site/Project Name: Tows Casino Pool #: W 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:
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
- 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 disc depth) >60.0 cm or: clear to bottom ×
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:
· PHOTO - #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: Conchostracans: Copepods: Ostracods Fish Frogs Salamanders Waterfowl Other (specify)	yes yes yes yes yes yes yes yes yes	no no no no no no no	1000'3	Insects: (adult or larvae) Anisoptera: Zygoptera: Hydrophilidae: Dytiscidae: Corixidae: Notonectidae: Belostomatidae: Other (specify)	yes yes yes yes yes yes yes yes yes	no
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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 informat	tion completely for each site visit.
This form is being submitted to serve as p	eart of the 90-day report: no×_ yes
	for the project site are included: no _×_ yes
Date: 02 15 2007 Time: 15: 12	County: Amson Quad: Amson Cr
Collector(s): CHRISTO SHEEL SHOWN	Permit #: \(\overline{T\varepsilon} - \overline{799564-2}
Site/Project Name: Zone Casino	Pool #: 😾
Township: $\overline{7}$ Range: \overline{R} 10 \overline{E}	Pool #:
Temperature: Water: 19.	<u>\$</u> °C Air: <u>19.5</u> °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: 2010 cm	estimated maximum: 3.66 m x 4.57 m
Habitat Condition: (circle where appropriate	te)
	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	isc depth) 50. o cm or: clear to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes:	
· Prom = # 48	
. Para Voy Auguens 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):

Cladocerans:	yes	no	Insector (adult on to		
Conchostracan	s: yes	no	Insects: (adult or larvae) Anisoptera:		
Copepods:	yes	no towa's		yes	no
Ostracods	yes	no	Zygoptera:	yes	no
Fish	•		Hydrophilidae:	yes	no
Frogs	yes	no	Dytiscidae:	yes	no
_	yes	no	Corixidae:	yes	-
Salamanders	yes	no	Notonectidae:	•	no
Waterfowl	yes	no	Belostomatidae:	yes	no
Other (specify)	•			yes	no
(1)/			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. Flease IIII out the required informati	on completely for each site visit.
This form is being submitted to serve as pa	art of the 90-day report: noX yes
Required color slides and/or photographs f	for the project site are included: no X yes
Date: 03 / 02 / 2007 Time: 08:02	County: Amador City
Collector(s): CHRISTOPHON SHOPPY	Permit #: <u>TE-799564-2</u>
	Pool #: _ E
Township: T7N Range: R 10 E	Section: 11, 14, 15 N W long
Temperature: Water: 5.3	3 °C Air: <u>\$.∂</u> °C
Pool Depth: at time of sampling: 10.6 cm	Surface Area: W 1 at time of sampling: 244 m x 3.05 m
estimated maximum: 12.0 cm	estimated maximum: 3.66 mx 4.57m
Habitat Condition: (circle where appropriate	re)
- 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 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 magnitude (e.g., 10's, 100's, 1000's)	# of individuals present in terms of an order of

Anostracans:

(note reproductive status)

Notostracans:

(note reproductive status)

Species Observations (Optional):

Cladocerans:	yes	no	Insects: (adult or larvae)		
Conchostracans:	yes	no	A	es/	nc
Copepods:	yes	no	7	es/es	no
Ostracods	yes	no	TT11-11-1	es	no
Fish	yes	no	Destada	es	no
Frogs	yes	no	Cambrida	es	no
Salamanders	yes	no	M-4	es	no
Waterfowl	yes	no	Dalastania	es	no
Other (specify)			Other (specify)	U B	110
Amphipoda - 10	's		(5,000)		

Voucher Specimens

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

Species

Individuals

Accession/Catalog #

Note: Flease IIII 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	or the project site are included: no _X_ yes			
	County: Amador City			
Collector(s): CHRISTOPHEN SHEETH	Permit #: <u>TE-799564-2</u>			
	Pool #:			
Township: T7N Range: R 10 E	Section: <u>11, 14, 15</u> N W long			
Temperature: Water: 6	o°C Air: _ 7.5 _ °C			
Pool Depth: at time of sampling:cm	Surface Area: at time of sampling: 7.62 m x 15.24 m			
estimated maximum:cm	estimated maximum: 9.14 m x 16.76 m			
Habitat Condition: (circle where appropriat	e)			
- 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: 7.0 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:	(yes)	no 10's	Insects: (adult or larvae)	Ì	
Conchostracan	s: yes	no	Anisoptera:	yes	no
Copepods:	yes	2'aor On	Zygoptera:	yes	no
Ostracods	yes	no	Hydrophilidae:	yes	no
Fish	yes	no	Dytiscidae:	yes	no
Frogs	yes	no 100'5	Corixidae:	yes	no
Salamanders	yes	no	Notonectidae:	yes	no
Waterfowl	yes	no CANADA 655	Belostomatidae:	yes	no
Other (specify)		+ 3CAT	Other (specify) _	_	
			CHIROLOMICAS	- LARUNG	- 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: 09:35 County: Amador Quad: Amador City					
Collector(s): CHE'S TOPHON SHOOT 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> long					
Temperature: Water: 8.8 °C Air: 13.7 °C					
Pool Depth: at time of sampling: 7.5 cm Surface Area: at time of sampling: 2.13 m x 4.57 m					
estimated maximum: 120 cm estimated maximum: 3.05 m x 6.10 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) >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: Conchostracans: Copepods: Ostracods Fish Frogs Salamanders Waterfowl	yes yes yes yes yes yes yes yes yes	no	Insects: (adult or larvae) Anisoptera: Zygoptera: Hydrophilidae: Dytiscidae: Corixidae: Notonectidae: Belostomatidae:	yes yes yes yes yes	no no Too Email to ID. no int fill is Colsopted no Abults (10's) no no no no no no no no
	yes	no	Belostomatidae:	yes yes	no no

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: noX yes
Required color slides and/or photographs for the project site are included: no _X_ yes
Date: 03 /02 /207 Time: 10:11 County: Amador Quad: Amador City
Collector(s): Crais regree from Permit #: TE-799564-2
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:°C Air:°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 121,92 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 Dissolved Oxygen:ppm or mg/l
pH: 7.5 Turbidity: (secchi disc depth) > 6 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'; In:	sects: (adult or larvae)		
	Conchostracans:		no	 -	Anisoptera:	yes	no
	Copepods:	(es)	no	1000,7	Zygoptera: LARVA &	(YES)	no ເອລາຽ
	Ostracods	yes	no		Hydrophilidae:	yes	no
	Fish	yes	no		Dytiscidae:	yes	no
	Frogs	yes	no	100,7	Corixidae: Aputra	(Jes)	no iois
	Salamanders	yes	no		Notonectidae:	yes	no
	Waterfowl	(yes)	no	CANAGE LEEST ADVITE LO	Belostomatidae:	yes	no
	Other (specify)			Blue HERRAN (1)	Other (specify)		
_	(c	2535	5e47	•	CHIDONOMIONO - 1	00'3 (L	arvas)
T 7	1 0 1				? Dipraca (Tipoli)	MAE TARVA	5)-104

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 / 02 / 2007 Time: 10:40	County: Amador City
Collector(s): Crais To para Sincery	Permit #: <u>TE-799564-2</u>
•	Pool #:
Township: T7N Range: R 10 E	Section: 11, 14, 15 N W lat. 120° 50' 40" long
Temperature: Water:	°C Air: _ / 7.5 °C
Pool Depth: at time of sampling: 152.4 cm	Surface Area: W Land 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 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 lois	Corixidae:	yes	no
Salamanders	yes	no	Notonectidae:	yes	no
Waterfowl	(yes)	10 Duck's (2) 9+0	Belostomatidae:	yes	no
Other (specify) _			Other (specify) Con	1161 BAL	
			" EDERIOAS - STEY OF	<i>P</i> \	Annes

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	or the project site are included: no _X yes		
Date: 03 / 02 / 2007 Time: //:05 (County: Amador Quad: Amador City		
Collector(s): CHRISTOPHER SHEETH	Permit #: <u>TE-799564-2</u>		
	Pool #:		
	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: 152.0 cm	Surface Area: 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 dis	sc 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.

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 100's	Anisoptera:	yes	no
Copepods: yes	no redet	Zygoptera:	yes	no
Ostracods yes	no	Hydrophilidae:	yes	no <
Fish yes	no	Dytiscidae:	yes	$_{\rm no}$ >
Frogs yes	no 100's	Corixidae: Abults	ves	no vo
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 _X yes
Required color slides and/or photographs for the project site are included: no _X _yes
Date: 03 / 02 /2007 Time: 12:17 County: Amador Quad: Amador City
Collector(s):
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. <u>120° 50' 40"</u> long
Temperature: Water:/o.2 °C Air:2o.2 °C
Pool Depth: Surface Area: ω ω ω at time of sampling: 183.0 cm at time of sampling: 29.38 m x 28.96 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: 7.8 Turbidity: (secchi disc depth) 52.0 cm or: clear to bottom
Salinity:ppt or ppm Total Dissolved Solids (TDS):ppm
Notes:

Note: Please fill out	the req	uired information	completely for each site visit.
Species Observation magnitude (e.g.,	s: state 10's, 1	none or estimate 00's, 1000's)	# of individuals present in terms of an order of
Anostracans: (note reproduct	ive stat	us)	
Notostracans: (note reproducti	ive stati	us)	
Species Observation	s (Optio	onal):	
Cladocerans: Conchostracans: Copepods: Ostracods Fish Frogs Salamanders Waterfowl	yes yes yes yes yes yes yes	uo u	Insects: (adult or larvae) Anisoptera: Zygoptera: LA RUAE Hydrophilidae: Dytiscidae: Corixidae: ADULT: Notonectidae: ADULT: Belostomatidae: Ves no LOC'S No LOC'S NO
Other (specify)		· · · · · · · · · · · · · · · · · · ·	Other (specify) Napidas — Abuses (1015)

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	on completely for each site visit.
This form is being submitted to serve as par	rt of the 90-day report: noX yes
Required color slides and/or photographs for	or the project site are included: no _X yes
Date: 03 / 02 / 2007 Time: 12:53	County: Amador / Quad: Amador City
Collector(s): CHRISTD PHOL SHOEHY	Permit #: <u>TE-799564-2</u>
/	Pool #:N
Township: T7N Range: R 10 E	Section: <u>11, 14, 15</u> N w lat. 120° 50' 40" long
Temperature: Water: 16.2	<u> </u>
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: 6.10 m x 24.38 m
Habitat Condition: (circle where appropriate	e)
- 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: 9.6 Turbidity: (secchi di	sc depth) >6.0 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 100's	Insects: (adult or larvae)		
Conchostracan	s: yes	no	Anisoptera:	yes	no
Copepods:	(yes)	د صور no	Zygoptera:	yes	no
Ostracods	yes	no	Hydrophilidae:	yes	no
Fish	yes	no	Dytiscidae:	yes	no
Frogs	yes	no	Corixidae: Asura	Øes>	no 10'5
Salamanders	yes	no	Notonectidae:	yes	no
Waterfowl	yes	no	Belostomatidae:	yes	no
Other (specify)			Other (specify)	, 55	110
		2	\1 \ <i>7</i> /		

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 pa	art 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 / 02 / 2007 Time: /3:40	County: Amador City
Collector(s): CHRISTOPHER SHEEK,	Permit #: <u>TE-799564-2</u>
Site/Project Name: <u>Ione Casino</u>	Pool #:
Township: T7N Range: R 10 E	Section: <u>11, 14, 15</u> N W lat. 120° 50' 40" long
Temperature: Water: 14	<u>/.1</u> °C Air: <u>22,1</u> °C
Pool Depth: at time of sampling:/oo.ocm	Surface Area: W L at time of sampling: 25.91 m x 45.72m
estimated maximum: 120,0 cm	estimated maximum: 30.48 m x 51.82 m
Habitat Condition: (circle where appropriat	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: 7.8 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.

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: ves	no 100's	Anisoptera: Asurs ve	es no
Copepods: yes	no 10001 2	Zygoptera: ye	
Ostracods (yes)	no 1000's	Hydrophilidae: ye	0.0
Fish yes	no	Dytiscidae: ye	> CO (ESPORTED A MILLOND
Frogs (TANGELS) yes	no too's	Corixidae: Abarra VE	
Salamanders yes	no	Notonectidae: Assir. VE	_
Waterfowl yes	no	Belostomatidae: ye	
Other (specify) Canaca 2	Seer	Other (specify)	· ——
· Platy Holmintes	۵۱۵		

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 informati	on completely for each site visit.
This form is being submitted to serve as pa	art of the 90-day report: no _X yes
Required color slides and/or photographs f	or the project site are included: no _X_ yes
Date: 03 / 02 /2007 Time: 14:05	County: Amador City
Collector(s): CHRISTOPHER SHEETS	Permit #: <u>TE-799564-2</u>
	Pool #:
Township: T7N Range: R 10 E	Section: <u>11, 14, 15</u> N W lat. <u>120° 50' 40"</u> long
Temperature: Water: 16.	6 °C Air: <u>/9,</u> 7 °C
Pool Depth: at time of sampling: 37.0 cm	Surface Area: W L 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 appropriat	е)
- 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
	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): (yes) Cladocerans: no 1000'1 Insects: (adult or larvae) Conchostracans: yes no Anisoptera: yes no Copepods: yes no 1000 's Zygoptera: yes no Ostracods (Yes) no 1000's 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)

Voucher Specimens

Amphipoos

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

Other (specify)

· CHIDONOGUEDE LARVAS

100'0

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: 19:30 County: Amador Quad: Amador City
Collector(s): Chris Topher Steern 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> long
Temperature: Water: 21.7 °C Air: /8.3 °C
Pool Depth: Surface Area: W at time of sampling: 13.0 cm at time of sampling: 4.57 m x 3.59 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 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: 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	t the requ	uired informa	ation completely for each site visit.	
Species Observation magnitude (e.g.	ns: state , 10's, 10	none or estir 00's, 1000's)	nate # of individuals present in terms of an orde	r of
Anostracans: (note reproduct	tive statu	ıs)		
Notostracans: (note reproduct	ive statu	ıs)		
Species Observation	ns (Optic	onal):		
Cladocerans: Conchostracans: Copepods: Ostracods Fish Frogs Salamanders Waterfowl Other (specify)	yes yes yes yes yes yes	no loosts no no loosts no no loosts no no loosts	Insects: (adult or larvae) Anisoptera: yes Zygoptera: yes Hydrophilidae: Agus Yes Dytiscidae: yes Corixidae: yes Notonectidae: Agus Yes Belostomatidae: yes Other (specify)	no no no no no no no
Voucher Specimens Specimens shall be paccessioned.	preserved	l according t	o the standards of the institution in which they v	will be

Accession/Catalog #

Species

Individuals

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: noX_ yes
Required color slides and/or photographs fo	or the project site are included: no _X_ yes
	County: Amador Quad: Amador City
Collector(s): Consistoper Strang	Permit #: <u>TE-799564-2</u>
Site/Project Name: <u>Ione Casino</u>	Pool #:
Township: T7N Range: R 10 E	Section: <u>11, 14, 15</u> N W long
Temperature: Water:/7,9	°C
Pool Depth: at time of sampling: 2010 cm	Surface Area: W L 18 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 ²³
Habitat Condition: (circle where appropriate)
- undisturbed disturbed:	tire tracks garbage discing/plowing
- ungrazed grazed:	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: 6.9 Turbidity: (secchi dis	c depth)cm or: clear to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes: - VERY AVBURN COLOR	

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

Species Observations magnitude (e.g.,	s: state 10's, 1	none oi	r estimate # of individuals present in terms o 00's)	f an ord	er of
Anostracans: (note reproductive	ve stat	us)			
Notostracans: (note reproductiv	ve stati	us)			
Species Observations	(Opti	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 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	ion completely for each site visit.
This form is being submitted to serve as pa	art 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 /19 /2007 Time: 12:30	County: Amador City
Collector(s): CPS	Permit #: <u>TE-799564-2</u>
	Pool #: <u>Dry</u>
	Section: <u>11, 14, 15</u> N W W lat. 120° 50' 40" long
Temperature: Water:	°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	isc depth)cm or: clear to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm
Notes: DRY Pools	
E, I , W , X , M	

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

		•	Tot each site visit.		
Species Observation magnitude (e.g.,	s: state 10's, 1	none or es 00's, 1000's	timate # of individuals present in terms of	of an ord	er of
Anostracans: (note reproducti	ve stat	us)			
Notostracans: (note reproducti	ve stati	us)			
Species Observations	s (Optio	onal) :			
Cladocerans: Conchostracans: Copepods: Ostracods Fish Frogs Salamanders Waterfowl Other (specify)	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 yes yes	no no no no no no
Voucher Specimens Specimens shall be pracessioned.	eserve	d according	g to the standards of the institution in wh	ich they	will be
eccssioned.		<u>viduals</u>	Accession/Catalog #	Pool:	

Note: Please fill out the required informatio	on 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	or the project site are included: no X yes
Date: 03 /19 /2007 Time: 11:48	County: Amador Quad: Amador City
Collector(s):CPS	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 Air: <i>/9, &</i> °C
Pool Depth: at time of sampling: /3. cm	Surface Area: W L at time of sampling: 3.05 m x 5.05 m
estimated maximum: 50,0 cm	estimated maximum: 9.14 m x 16.76m
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: 9, 8 Turbidity: (secchi dis	c depth) >60 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 1000' i	Insects: (adult or larvae)
Conchostracans	: yes	no	Anisoptera: yes no
Copepods:	(Jes)	no ioue'i	7xxxxxxxx
Ostracods	yes	no	Lyndrombitida
Fish	∕ ₹\$\$	2161 Off	Destinated
Frogs	yes	no	Comincials
Salamanders	yes	no	Notan at 1-
Waterfowl	ves	no	Delectometide
Other (specify)	-		J-00 IIO
(apoonly)			Other (specify) Cultator - lacins - 120'1

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 informati	on completely for each site visit.
This form is being submitted to serve as pa	art of the 90-day report: noX yes
Required color slides and/or photographs f	or the project site are included: no X yes
Date: 03 / 19 /2007 Time: 12:17	County: Amador City
Collector(s): CPJ	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: 22.3	2°C Air: _22.5°C
Pool Depth: at time of sampling: 152,4 cm	Surface Area: W L at time of sampling: 64.0/ m x 11.44m
estimated maximum: 213,40 cm	estimated maximum: 91.44 m x 121.92m
Habitat Condition: (circle where appropriate	te)
- 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 d	isc depth)>3.2.a _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:	no اعظما	Insects: (adult or larvae)		
Conchostracans: yes	no	Anisoptera:	yes	no
Copepods:	no idau's	Zygoptera: LARLAS	yes	no lead
Ostracods yes	no	Hydrophilidae:		no 🛴
Fish yes	no	Dytiscidae:	yes	no Scalestian - Aorta
Frogs (2.11) OES	no 1415	Corixidae: Apunt	O'ES	no tabig
Salamanders yes	no	Notonectidae:	yes	no
Waterfowl VES	no loly	Belostomatidae:	yes	no
Other (specify) 545780	FACA - (PHISIONS) - 1001	ري Other (specify)	liciones	- 1 ARMS 100'S
<u></u>		- DIPTERA - 100	4	

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 pa	rt of the 90-day report: noX yes		
Required color slides and/or photographs f	or the project site are included: no _X yes		
Date: 03 / 19 /207 Time: 12:56	County: 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 lat. 120° 50' 40" long		
Temperature: Water: _>z.s			
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 appropriat	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 d	isc depth) >≤0.0 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)	10 1004cz	Insects: (adult or larvae)		
Conchostracans:	yes	no	Anisoptera:	yes	no
Copepods:	yes	NO toad's	Zygoptera: Laguas	(yes)	ז _ו סט סע
Ostracods	yes	no	Hydrophilidae:	ves	no
Fish	yes	no	Dytiscidae: Leeves	⊘ es⊃	no sate
Frogs Salamanders	₹	2'01 On	Corixidae:	yes	no
Waterfowl	yes	no	Notonectidae:	yes	no
Other (specify)	yes	no	Belostomatidae:	yes	no
Other (specify)			Other (specify)	licious -	1'0001 - 2019-

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 / 15 / 207 Time: 13:21 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 long
Temperature: Water: 22.0 °C Air: 22.2 °C
Pool Depth: Surface Area: W L at time of sampling: 91.44 cm at time of sampling: 6.71 m x 18.25 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: \(\scale \text{7.4}\) Turbidity: (secchi disc depth) \(\frac{44.5}{24.5}\) cm \(\text{or}\): clear to bottom \(\left(\)
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 1005 l	Insects: (adult or larvae)		
Conchostracans: yes	no work	Anisoptera:	yes	no
Copepods: yes	10 (4 00) /	Zygoptera:	yes	no
Ostracods yes	no	Hydrophilidae: Awir C	yes>	no tals
Fish yes	no	Dytiscidae: Laewo	yes	no /o¹J
Frogs VES	no 100/5	Corixidae:	yes	no
Salamanders yes	no	Notonectidae:	yes	no
Waterfowl yes	no	Belostomatidae:	yes	no
Other (specify) [LASTROP	PODL - (YNYSIDAE) - 10013	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: noX yes
Required color slides and/or photographs for the project site are included: no _X yes
Date: 63 / 19 / 207 Time: 14:12 County: Amador Quad: Amador City
Collector(s): Permit #: <u>TE-799564-2</u>
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> long
Temperature: Water: /8.2 °C Air: 22.3 °C
Pool Depth: at time of sampling: 185.0 cm Surface Area: 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)
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: 78 Turbidity: (secchi disc depth) > 60,00cm 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 100013	Insects: (adult or larvae)		
Conchostracans: yes	no	Anisoptera:	ves	no
Copepods:	no tossis	Zygoptera: Lieuw	∀ 55	no ∕∂¹s
Ostracods yes	no	Hydrophilidae:	yes	no
Fish yes	no	Dytiscidae:	yes	no
Frogs (Bu) YES	no 101,	Corixidae:	Ø€\$	NO too! Y
Salamanders yes	no	Notonectidae:	O'ES	no les i
Waterfowl (785)	10 - (s) Dockt (5.9	Belostomatidae:	yes	no
Other (specify) Ampuipoon	- 1000's	Other (specify)	•	_
- PLATYHE (M	וימו – מווועו			

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 pa	art 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: 15: //	County: Amador Quad: Amador City
Collector(s): CPJ	Permit #: <u>TE-799564-2</u>
Site/Project Name: lone Casino	Pool #:
Township: T7N Range: R 10 E	N W Section: <u>11, 14, 15</u> 38° 27' 40" lat. 120° 50' 40" long
Temperature: Water: 23.7	°C Air: 21.3 °C
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: 30.48 m x 51.52 m
Habitat Condition: (circle where appropriat	re)
-undisturbed disturbed:	tire tracks garbage discing/plowing
- ungrazed grazed:	cattle horses sheep other heavy
- land use of habitat:	
(Optional) Water Chemistry Data	₹¥ À
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	isc depth) من من cm <u>or</u> : clear to bottom <u>X</u>
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) 10 to acc' Conchostracans: ves Anisoptera: no 100's yes no Copepods: (TES) no toon's Zygoptera: Larvas וב"טו חס Ostracods Hydrophilidae: ***** yes no no toty Fish yes no Dytiscidae: LA ELAS no 1217 **Frogs** Corixidae: yes> no ison yes no Salamanders yes no Notonectidae: yes no Waterfowl yes Belostomatidae: no yes no Other (specify) Plany 100 low 1100 1 Other (specify) · CANADA GEETS-SCAT 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	on completely for each site visit.
This form is being submitted to serve as pa	rt of the 90-day report: noX yes
Required color slides and/or photographs for	or the project site are included: no _X yes
Date: 03 / 19 / 200 7 Time: 13:30	County: 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 at. 120° 50' 40" long
Temperature: Water: 21. 2	<u>8</u> °C Air: <u>/9≥9</u> °C
Pool Depth: at time of sampling: 30.0 cm	Surface Area: ω ω at time of sampling: ω ω ω ω ω at time of sampling: ω
estimated maximum: 40.0 cm	estimated maximum: 18.29 m x 21.34 m
Habitat Condition: (circle where appropriat	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) >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: Ves Conchostracans: yes Copepods: Ves Ostracods yes Fish yes Frogs Salamanders yes Waterfowl yes Other (specify)	no no loo, no no loo, no loo, no loo, no loo, no loo loo loo loo loo loo loo loo loo	Insects: (adult or larvae) Anisoptera: Zygoptera: Hydrophilidae: Dytiscidae: Corixidae: Notonectidae: Belostomatidae: Other (specify)	yes yes yes yes yes yes	no
---	--	---	--	----------------------------------

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 informati	on completely for each site	visit.
This form is being submitted to serve as pa	art of the 90-day report:	no X yes
Required color slides and/or photographs f	or the project site are include	ed:no_X_yes
Date: <u>03 / 30 / 2007</u> Time:	County: <u>Amador</u>	_ Quad: <u>Amador Cit</u> y
Collector(s):cps sms	Permit #:	TE-799564-2
Site/Project Name: lone Casino		Pool#: SEE NITE
Township: T7N Range: R 10 E		
Temperature: Water:	°C Air:	°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 appropriat	e)	
- undisturbed disturbed:	tire tracks garbage	discing/plowing
- ungrazed grazed:	cattle horses sheep other light moderate	r 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 <u>or</u> : clear	to bottom
Salinity:ppt or ppm	Total Dissolved Solids (TD	S):ppm
Notes:		
DRY -E, I, N, W,x		

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. <u>120° 50' 40"</u> long
Temperature: Water: 9.8 °C Air: 12.4 °C
Pool Depth: at time of sampling: 14.0 cm Surface Area: at time of sampling: 2.13 m x 3.35 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) >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 individum agnitude (e.g., 10's, 100's, 1000's)	als present in terms of an order of
magmude (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	Aminomiana (* -	
Copepods:	yes>	no ₁∞₀′յ	7xicontono.	no 1917
	yes	no tota	Zygopiera: yes Hydrophilidae: Assura (VES)	no
•	yes	no	Dytiscidae: Lauris (YES)	no w's
_	yes	no	Corixidae: yes	no ان ه
•	yes	no	Notonectidae: yes	no
₩	es	no	Belostomatidae: yes	no
Other (specify) Pla	PHELP	INTHES -10's	Other (specify)	110
			· · · · · · · · · · · · · · · · · · ·	

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: noX 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 #:
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: /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: 2/3 · 40cm estimated maximum: $9/.44 \text{ m} \times 121.92 \text{ m}$
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: 6.7 Turbidity: (secchi disc depth) > 40.0 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	(essa')	Insects: (adult or larvae)		
Conchostracans		no	10011	Anisoptera:	ves	no
Copepods:	(Ac2)	no	1#00'}	Zygoptera: LARVA-5	•	
Ostracods	yes	no			yes	no Lool
Fish	•			Hydrophilidae: Ass.	r ¢tes>	NO 10017
	yes	no		Dytiscidae:	yes	no
Frogs	₩.	no	100'3	Corixidae: A	QED.	
Salamanders	yes	no		Notonectidae:	•	NO ι ου'λ
Waterfowl	ves	-	CAMBON GEESE		yes	no
			CAMBON COTOLS	Belostomatidae:	yes	no ,
Other (specify)	LAJTPOPSO	<i>s</i> .		Other (specify) _ C.	الفروسة	- (LARUES) - 1775
 	BYRAILS (Plan	condition + PHYSAL PHYSA	and the second s		
					Z Index C W.C.	- (AGUES) - 10'S

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 _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): 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 lat. <u>120° 50' 40"</u> long					
Temperature: Water:°C Air:°C					
Pool Depth: at time of sampling: 91.44 cm Surface Area: at time of sampling: 6.40 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: 4.9 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:	no topely	Insects: (adult or larvae)		
Conchostracans: ves	no 1001	Anisoptera:	3/05	
Copepods: yes	no woo's	-	yes	no
Ostmand		Zygoptera:	yes	no
J	no	Hydrophilidae:	Vec	no
Fish yes	no		yes	no
	_	Dytiscidae:	yes	no
	no lois	Corixidae: Aour	-1755	70
Salamanders yes	no		(Jes)	י ניטו no
Water Co. 1		Notonectidae:	yes	no
J	no	Belostomatidae:	yes	***
Other (specify) . Higher	EA - 1011			no
		Other (specify) <u>, C</u>	ul i e i pach	- 100's (LARNIG)
- Mary 45 /	L' cos - Parturn	· · · · · · · · · · · · · · · · · · ·		

- Lastopaca - Paysa/ Paysoin

Voucher Specimens

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Species

Individuals

Accession/Catalog #

Note: Please fill out the required information	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 f	Required color slides and/or photographs for the project site are included: no _X yes				
Date: 03 / 30 / 2007 Time: 11:34	County: Amador City				
Collector(s): CPJ	Permit #: <u>TE-799564-2</u>				
Site/Project Name: lone Casino	Poel #: A				
Township: T7N Range: R 10 E	Section: <u>11, 14, 15</u> N W lat. <u>120° 50' 40"</u> long				
Temperature: Water: 14.	/_ °C Air: <u>22.0</u> °C				
Pool Depth: at time of sampling: _/83.5 cm	Surface Area: ω ω ω at time of sampling: ω				
estimated maximum: 213. 4 cm	estimated maximum: 27.73 m x 30.48 m				
Habitat Condition: (circle where appropriat	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: 7.1 Turbidity: (secchi d	isc depth) >60.0 cm or: clear to bottom 🗡				
Salinity:ppt or ppm	Total Dissolved Solids (TDS):ppm				
Notes:	*3.				

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 v	440')	Insects: (adult or larvae)		
Conchostracans	: yes	no		Anisoptera:	ves	no
Copepods:	(VES)	no o	מיטט'ק	Zygoptera: Labyas	yes	no vois
Ostracods	yes	no		Hydrophilidae:	yes	no
Fish	yes	no		Dytiscidae:	yes	no
Frogs	(Yes)	no w	۵15	Corixidae: Aous	<u>√yes</u>	no wat
Salamanders	yes	no		Notonectidae: April		no teat
Waterfowl	yes	no		Belostomatidae:	ves	no
Other (specify)	Амригра	<u> 100</u>	00,7	Other (specify)	• -	

Voucher Specimens

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Species

Individuals

Accession/Catalog #

Note: Please fill out the required informati	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 f	or the project site are included: no X_ yes			
Date: 03 / 30 / 2007 Time: 12:40	County: Amador City			
Collector(s): CPJ	Permit #: <u>TE-799564-2</u>			
Site/Project Name: lone Casino	Pool #: _ <i>F</i>			
	Section: <u>11, 14, 15</u> N W lat. 120° 50' 40" long			
Temperature: Water:/5.	<u>/</u> °C Air: <u>z₃.o</u> °C			
Pool Depth: at time of sampling: 37.0 cm	Surface Area: W L at time of sampling: 10.67 m x 14.63 m			
estimated maximum: 120.0 cm	estimated maximum: 33.48 m x 51.82 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 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 rosofi	Insects: (adult or larvae)		
Conchostracan	s: ges	מיסטו סת	Anisoptera:	yes	no
Copepods:	Qes>	no topo's	Zygoptera:	yes	no
Ostracods	yes	no	Hydrophilidae:	yes	no
Fish	yes	no	Dytiscidae:	yes	no
Frogs	⊘ es	10 1000's	Corixidae: Aburta	yes	no vecta
Salamanders	yes	no	Notonectidae:	yes	no
Waterfowl	yes	no	Belostomatidae:	yes	no
Other (specify)	Platymet,	LIATINE - TOOLS	Other (specify)	_	
					

Voucher Specimens

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Species

Individuals

Accession/Catalog #

Note: Please fill out the required informatio	Note: Please fill out the required information completely for each site visit.				
This form is being submitted to serve as par	This form is being submitted to serve as part of the 90-day report: noX_ yes				
Required color slides and/or photographs fo	or the project site are included: no _X_ yes				
Date: 03 / 30 / 217 Time: 13:25	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: <u>11, 14, 15</u> N W lat. <u>120° 50' 40"</u> long				
Temperature: Water: _ /5. 7	°C Air: _ 23. 2				
Pool Depth: at time of sampling: 30.0 cm	Surface Area: W L at time of sampling: 4.88 m x 9.14 m				
estimated maximum: 4010 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				
- 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 dis	sc depth) > 60.0 cm or: clear to bottom 🗶				
Salinity: ppt or ppm	Total Dissolved Solids (TDS):ppm				
Notes:					

Note: Please fill ou	t the requ	uired informat	ion completely for each site visit.	
Species Observatio magnitude (e.g.	ns: state ., 10's, 10	none or estim 00's, 1000's)	ate # of individuals present in terms of an o	rder of
Anostracans: (note reproduc	tive statu	ıs)		
Notostracans: (note reproduc	tive statu	ıs)		
Species Observation	ns (Optic	onal) :		
Cladocerans: Conchostracans Copepods: Ostracods Fish Frogs Salamanders Waterfowl Other (specify)	yes yes yes yes yes yes	uo no laat, no no no laat, no no laat,	Insects: (adult or larvae) Anisoptera: yes Zygoptera: yes Hydrophilidae: Yes Dytiscidae: yes Corixidae: Adult Yes Notonectidae: yes Belostomatidae: yes Other (specify)	s no
Woucher Specimens Specimens shall be j	راه) حسب		the standards of the institution in which the	ey will be
accessioned. Species		<u>viduals</u>		ol#

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: 14:20 County: Amador Quad: Amador C				
Collector(s): Permit #: <u>TE-799564-2</u>				
Site/Project Name: lone Casino	Pool #:			
Township: T7N Range: R 10 E	N W Section: <u>11, 14, 15</u> 38° 27' 40" lat. 120° 50' 40" long			
Temperature: Water: 18.	7 °C Air: <u>28.0</u> °C			
Pool Depth: at time of sampling: 16.0 cm	Surface Area: ω ω at time of sampling: 3.04 m x 3.76 m			
estimated maximum: 213.0 cm	estimated maximum: 18.29 mx 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) >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 no Anisoptera: yes no Copepods: yes no Hydrophilidae: yes no Hydrophilidae: yes no Dytiscidae: yes no Salamanders yes no Notonectidae: yes no Waterfowl yes no Belostomatidae: yes no Other (specify)	,*,
Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be	

accessioned.

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

Note. Flease 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 f	or the project site are included: no _X _yes		
Date: 04 / 13 / 2007 Time:	County: Amador Quad: Amador Cit		
	Permit #: <u>TE-799564-2</u>		
	Pool #: _325 Note;		
	Section: <u>11, 14, 15</u> N W W lat. <u>120° 50' 40"</u> lon		
Temperature: Water:	°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 appropriat	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	•		
pH: Turbidity: (secchi di	sc depth)cm or: clear to bottom		
	Total Dissolved Solids (TDS):ppm		
Notes:	 -		
DRY - ENTHUX			

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: yeş no Salamanders yes no Notonectidae: yes no Waterfowl yes no 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	on completely for each site visit.
This form is being submitted to serve as pa	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: 04 / 13 /2007 Time: 09:41	County: Amador City
Collector(s): CPS + SMS	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://_	8 °C Air: 12.5 °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: 2/3,4 cm	estimated maximum: 91.44 m x 121.92m
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: 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:	yes	no 1000' \ Insect	ts: (adult or larvae)	
Conchostracans	s: yes	no	Anisoptera: LABORES (VES)	no tota
Copepods:	(yes)	no coots	Zygoptera: LARVAS VES	110 10°3
Ostracods	yes	no	Hydrophilidae: Aparta ves	no 100' 1
Fish	yes	no	Dytiscidae: yes	no
Frogs	VES	no 100's	Corixidae: Apults YES	no 100 's
Salamanders	yes	no	Notonectidae: yes	no
Waterfowl	Ves	no 1014 (Duck & Comeon George	Belostomatidae: yes	no
Other (specify)	LA STROP	ness on Royal I day willow on 1964.	Other (specify) ETHEMENOPIN	LABORET - 10'S

Voucher Specimens

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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: noX_ yes
Required color slides and/or photographs for	or the project site are included: no _X yes
	County: Amador Quad: Amador City
	Permit #: <u>TE-799564-2</u>
	Pool #: K
	Section: 11, 14, 15 N W 1010 N W 1010 N W 1010 N N W 1010 N N N W 1010 N N N N N N N N N N N N N N N N N
	°C Air: <u>/3, /</u> °C
Pool Depth: at time of sampling: 9/144cm	Surface Area: ω Δ at time of sampling: ω
estimated maximum: 183, ocm	estimated maximum: 13.72 m x 36.58 m
Habitat Condition: (circle where appropriate	e)
- undisturbed disturbed:	tire tracks garbage discing/plowing
- ungrazed grazed:	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 dis	sc depth) 37.0 cm or: clear to bottom
	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	Insects: (adult or larvae)
Conchostracan	s: Ves	גיספרו no	Anisonton
Copepods:	VES	no teas's	7
Ostracods	yes	no	Hydrophilidae: Lanua ves no 100's
Fish	yes	no	Dytiscidae: LADVAE (YES) no 10'1
Frogs	(Yes	no voor	Corixidae: Apults (yes) no /oo's
Salamanders	yes	no	Notonectidae: 40012 (765) no 10's
Waterfowl	yes	no	Belostomatidae: ves no
Other (specify)	· LASTPA PI	100 - Pugar / Pug	other (specify) CHIESTON TO LANGE TO LANGE
	· HIRWIN		Character Contraction - character - charac

Voucher Specimens

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Species

Individuals

Accession/Catalog #

Note: Please IIII 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: 04 / 13 / 2007 Time: 11:09	County: Amador Quad: Amador City
Collector(s): cps - 5ms	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: _/5.	?°C Air:21.9
Pool Depth: at time of sampling: _7-5 cm	Surface Area: W L at time of sampling: 3.05 m x 3.66 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: 7.2 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 lead!	Insects: (adult or larvae)		
Conchostracans: yes	no	, a , a , a , a , a , a , a , a , a , a	ves> no	ני פו ס
Copepods: ves	no insert	_ ^		راهم، (
Ostracods yes	no	TT 1 1 111 1	yes no	o
Fish yes	no	Dytiscidae:	yes no	o
Frogs Yes	no rain	Corixidae:	yes no	o
Salamanders yes	no	Notonectidae:	yes no	o .
Waterfowl yes	no	Belostomatidae:	yes no	o
Other (specify)- 648 1720)	sas - Puges / Pugeella	Other (specify) Culia	نصد حی مرور د ز	- LANGE - LANGE
/ Hypeac	1011 man 1011	· · · · · · · · · · · · · · · · · · ·		_

Voucher Specimens

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

Species

Individuals

Accession/Catalog #

<u>Pool #</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: noX yes
Required color slides and/or photographs for the project site are included: no X yes
Date: 04 / 13 / 2007 Time: 11:58 County: Amador Quad: Amador City
Collector(s): Permit #: <u>TE-799564-2</u>
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: 17.5 °C Air: 24.4 °C
Pool Depth: Surface Area: ω ω at time of sampling: ω at time of sampling: ω at time of sampling: ω ω ω ω at time of sampling: ω ω ω ω ω ω ω ω
estimated maximum: 40.0 cm estimated maximum: 1821 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 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):

Cladocerans: yes Conchostracans: yes	no /000, 7	Insects: (adult or larvae) Anisoptera: yes	
Copepods: yes Ostracods yes Fish yes Frogs yes Salamanders yes Waterfowl yes	uo uo 199 ₁ 7 uo uo 199 ₁ 7	Zygoptera: yes Hydrophilidae: Lasua yes Dytiscidae: Lasua yes Corixidae: Abults Notonectidae: Abults Belostomatidae: yes	no to to no no to to no no to to no no to to no
Outer (specify) America	<u> → 1</u> 00,7	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	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 /207 Time: 18:01 C	ounty: 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: 11, 14, 15 N W lat. 120° 50' 40" long.
Temperature: Water: 18.9	°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: 120 cm	estimated maximum: 30.45 m x 51.32 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	N.
Alkalinity (total):ppm or mg/l	Conductivity:uMHO
Dissolved NH ₄ :ppt or ppm I	Dissolved Oxygen:ppm or mg/l
pH: 7.5 Turbidity: (secchi disc	depth) >60,0 cm or: clear to bottom X
Salinity:ppt or ppm 7	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 teest Insects: (adult or larvae) Conchostracans: ves no Anisoptera: yes no Copepods: (Ves) 10 1000's Zygoptera: LARVAS ØES) no lools Ostracods yes no Hydrophilidae: Abus VES ريم، no Fish yes no Dytiscidae: yes no Frogs (yès) د'هما no Corixidae: Apul + **∠**Ves no wis Salamanders yes no Notonectidae: Aour Jes no 10'1 Waterfowl yes) no (2 Duen) Belostomatidae: yes no Other (specify) A muricust 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 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 _X yes
Date: 04 / 13 / 2007 Time: 14-11	County: 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 W lat. 120° 50' 40" long.
Temperature: Water:/5/	°C Air: 20.1 °C
Pool Depth: at time of sampling: /83.cm	Surface Area: 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 appropria	te)
- 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 d	isc depth) 760.0 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: YES no 1000 1 Zygoptera: LAPHAF (ves) no ise's Ostracods yes no Hydrophilidae: yes no Fish yes no Dytiscidae: yes no Frogs yes no Corixidae: Aports (yes) no 1000's Salamanders yes Notonectidae: Acurs Ves no no iman's Waterfowl yes no 2 Ducks 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 #

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.



PHOTO 2

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



PHOTO 4

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



PHOTO 5

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



РНОТО 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

CONTENTS

MIWOK CASINO

INTRODUCTION	1
METHODS	1
RESULTS	3
SUMMARY	3
LIST OF FIGURES	
Figure 1. Project Site and Vicinity Map	2
Figure 2. Vernal Pool and Seasonal Wetland Sampling Locations	4

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-

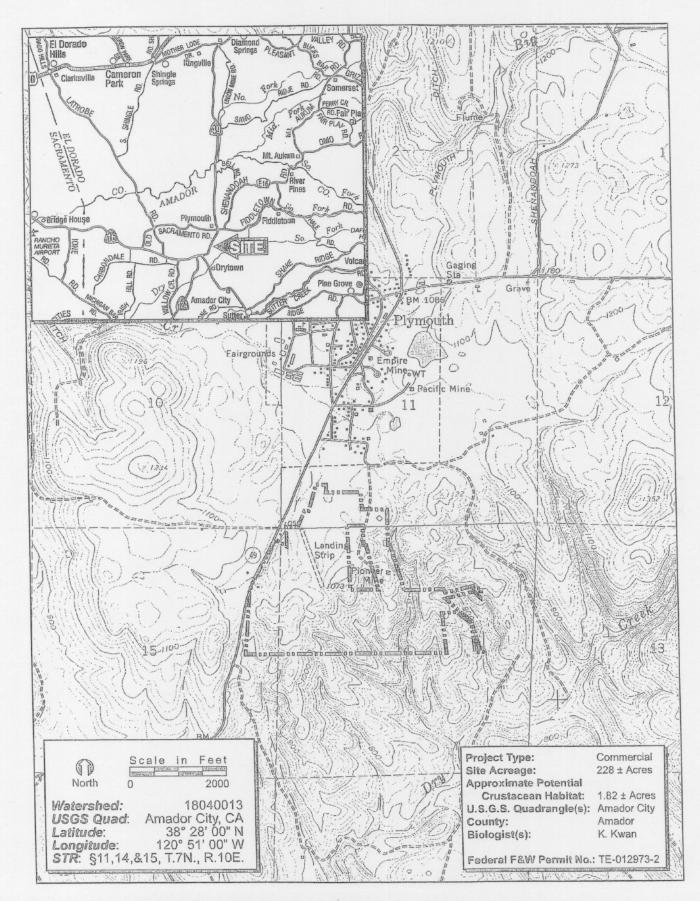


FIGURE 1. Project Site and Vicinity Map

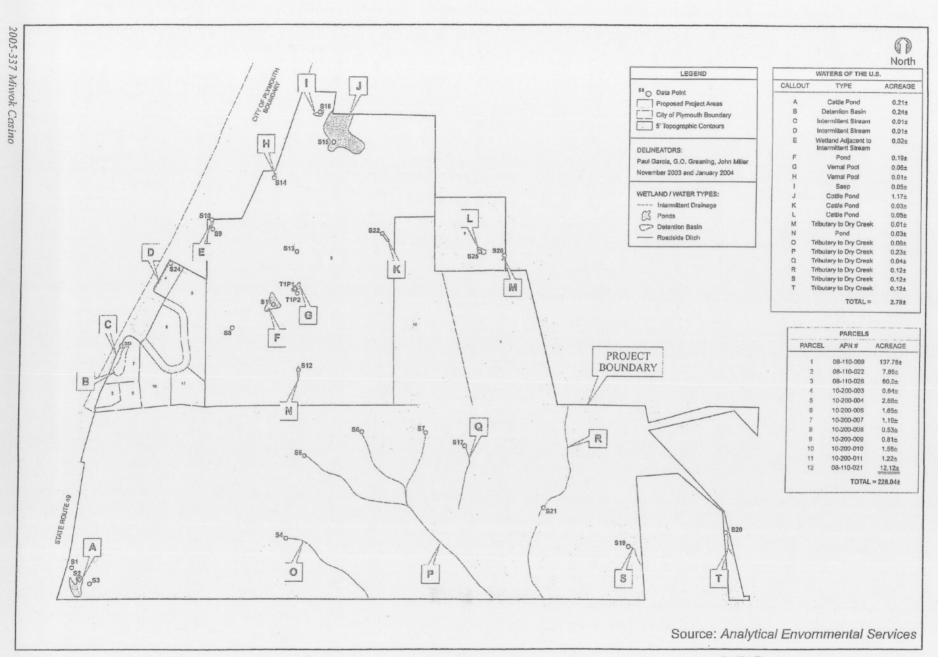
netted during each site visit. (Figure 2 - Vernal Pool and Seasonal Wetland Sampling Locations). Required data were collected and documented on U.S. Fish and Wildlife Service-approved Vernal Pool Data Sheet Wet Season Survey data forms. Permitted biologists Keith Kwan and Peter Balfour conducted the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

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		orth, Range 10 E					
Start Time: 9:30	Latitude: 38 2	7' 40" N Longit	tude: 120 50' 40)" W		End Time: 11:15	
Start Air Temp (C): 11				10		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		
Н	27	42		11	None		
J	50+	1020		11	None	bullfrogs (ad+larvae), mosquitofish	
I	Dry						
K	50+	96		12	None	Planariidae	
Е	8	1		13	None		
U	7	2		13	None		
V	12	2		13	None		
A						not fairy shrimp habitat	

Site/Project Name:	Miwok Casino 2004-337			County/Quad: Amador / Amador City			
Permitted Biologist:	Keith Kwan, Pete Balfour Permi				rmit Number: TE-012973-2		
Sample Date: 12/22/2004	Township 7 No	orth, Range 10 E	Cast, Section 11,	14, 15			
Start Time: 10:00	Latitude: 38 2	7' 40" N Longit	tude: 120 50' 40)" W		End Time: 12:00	
Start Air Temp (C): 6						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	photo 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	
1	0						
К	50	125		7	None	photo 5; ostracod, dytiscid larvae, ephencroptera, possible imm. Anostraca	
E	Dry						
U	Dry						
٧	Dry						
A	80+	280		8	None	photo 6; amphipods, bullfrog larvae; not fariy 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	orth, Range 10 E	ast, 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
N1	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	
Н	31	55	55	8	None	
J	50+	7500	7500	8	None	
1	6	8	8	9	None	
K	50+	480	480	8	None	
A	100+	368	368	8	None	high turbidity

Site/Project Name:				County/Quad: Amador / Amador City			
Permitted Biologist:	Keith Kwan			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 Number	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		
F	50+	1350	1350	4	None		
G	29	221	221	4	None		
V	5	6	6	5	None		
Е	0						
U	14	24	24	5	None		
Н	34	55	55	4	None		
J	50+	7500	7500	4	None		
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			County/Quad: Amador / Amador City			
Permitted Biologist:	Keith Kwan			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 Depth	Surface Area	Max. Surface	Water Temp.	Listed	Comments / Other Invertebrates /	
Pool Number	(cm)	(sq. m)	Area (sq. m)	(C)	Branchiopods	Vertebrates	
N1	21	3	8	8	None		
N2	22	30	68	8	None		
F	45	700	1350	8	None		
G	28	120	221	8	None		
٧	0		6		None		
Е	0						
U	8	8	24	8	None		
Н	27	35	55	8	None		
J	50+	7500	7500	8	None		
1	9	6.	8	8	None		
K	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 Number: TE-012973-2			
Sample Date: 2/14/2005	Township 7 No	orth, Range 10 I	Cast, Section 11,	14, 15			
Start Time: 9:30	Latitude: 38 2	7' 40" N Longi	tude: 120 50' 4	0" 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	
NI	16	2	8	9	None		
N2	21	68	68	9	None		
F	50+	1350	1350	8	None		
G	32	221	221	9	None		
V	0		6		None		
Е	0						
U	-10	6	24	9	None		
Н	34	24	55	8	None		
J	50+	4200	7500	8	None		
1	0		8		None		
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			Permit Number: TE-012973-2		
Sample Date: 2/28/2005	Township 7 N	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	
Е	Dry					
U	10	6	24	10	None	
Н	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		_	East, Section 11			
Start Time: 9:30	Latitude: 38 2	7' 40" N Longi	tude: 120 50' 4	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	(cm)	(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					
U	Dry		24			
Н	17	24	55	12	None	
J	50+	3500	7500	11	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 Number: TE-012973-2		
Sample Date: 3/28/2005 Start Time: 9:00 Start Air Temp (C): 12		orth, Range 10 F 7' 40" N Longi	End Time: 11:00 End Air Temp (C): 15			
	Pool Depth	Surface Area	Max. Surface		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	
٧	10	6	6	10	None	
Е	Dry					
U	12	15	24	10	None	
Н	41	28	55	11	None	
J	50+	7500	7500	10	None	
1	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			County/Quad: Amador / Amador City			
Permitted Biologist:	Keith Kwan			Permit Number: TE-012973-2			
Sample Date: 4/12/2005 Start Time: 10:00 Start Air Temp (C): 12	Latitude: 38 2	orth, Range 10 I 7' 40" N Longi	End Time: 11:30 End Air Temp (C): 14				
	Pool Depth	Surface Area	Max. Surface			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		
V	3	1	6	12	None		
Е	Dry						
U	5	2	24	12	None		
Н	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 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		orth, Range 10 I 7' 40" N Longi				End Time: 11:00 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				
E	Dry						
U	Dry		24				
Н	Dry		. 55			h	
J	50+	2000	7500	12	None		
1 .	Dry		8				
K	50+	240	480	12	None		
A	50+	150	368	12	None		

