

Draft
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Edwards Aquifer Habitat Conservation Plan
USFWS Permit No. TE63663A-0
2013 Annual Report

Prepared for
The U.S. Fish and Wildlife Service

On behalf of
The Edwards Aquifer Habitat Conservation Plan Permittees

Prepared by
SWCA Environmental Consultants

March 11, 2014
SWCA Project Number 27474-SA

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**EDWARDS AQUIFER HABITAT CONSERVATION PLAN
2013 ANNUAL REPORT**

On behalf of
THE EDWARDS AQUIFER HABITAT CONSERVATION PLAN PERMITTEES

This report has been prepared for

THE U.S. FISH AND WILDLIFE SERVICE
Austin Ecological Services Field Office
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Austin, Texas 78758
and
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Draft Date: November 19, 2013
March 11, 2014

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ABBREVIATIONS

<Insert abbreviations used in body of text>

ASR	Aquifer Storage and Recovery
EAA	Edwards Aquifer Authority
EAHCP	Edwards Aquifer Habitat Conservation Plan
EARIP	Edwards Aquifer Recovery Implementation Program
HCP	Habitat Conservation Plan
IC	Implementing Committee
ITP	Incidental Take Permit
RWCP	Regional Water Conservation Program
SAWS	San Antonio Water System
SCUBA	Self Contained Underwater Breathing Apparatus
TPWD	Texas Parks and Wildlife Department
USFWS	U.S. Fish and Wildlife Service

TABLE EXAMPLE

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EXECUTIVE SUMMARY

< To be prepared by SWCA >

The following report topics will be included in the Executive Summary. Each topic will be one paragraph in length and will summarize the full detail provided in the Annual Report.

- Brief background
- HCP Covered Activities
- Description of listed species
- HCP Management
 - Program administration
 - Expenditures
- Restoration/Conservation Measures
- Monitoring Measures
- Research Activities
- Modeling Activities
- Adaptive Management activities
- Summary of Biological Goals and Objectives
- Summary of Compliance with the terms and conditions of the ITP
- Summary of Public Outreach and Education

1.0 INTRODUCTION

Insert a brief introduction to the Edwards Aquifer HCP and ITP
< To be prepared by SWCA >

1.1 Habitat Conservation Plan/ Covered Activities

Insert background information/introduction on the HCP documentation and covered activities to be discussed further in Chapter 3.
< To be prepared by SWCA >

1.2 Incidental Take Permit

Insert background information/introduction on the ITP. Covered areas.
< To be prepared by SWCA >

1.2.1 Permittees

Identify the permittees included in the ITP
< To be prepared by SWCA >

1.2.2 Permit Requirements

Insert the requirements outlined in the ITP from USFWS
< To be prepared by SWCA >

1.2.3 Covered Species

The ITP authorizes the incidental take to ten animal species and one plant species. Species covered under the ITP are listed in Table 1.

Table 1. Species Covered Under the USFWS Incidental Take Permit.

Common Name	Scientific Name	Federal Status
Fountain Darter	<i>Etheostoma fonticola</i>	Endangered
San Marcos Gambusia	<i>Gambusia georgei</i>	Endangered
Comal Springs Dryopid Beetle	<i>Stygoparnus comalensis</i>	Endangered
Comal Springs Riffle Beetle	<i>Heterelmis comalensis</i>	Endangered

Peck's Cave Amphipod	<i>Stygobromus pecki</i>	Endangered
Texas Wild Rice	<i>Zizania texana</i>	Endangered
Texas Blind Salamander	<i>Eurycea (+Typhlomolge) rathbuni</i>	Endangered
San Marcos Salamander	<i>Eurycea nana</i>	Threatened
Texas Cave Diving Beetle	<i>Haideoporus texanus</i>	Petitioned
Comal Springs Salamander	<i>Eurycea sp.</i>	Petitioned
Texas Troglobitic Water Slater	<i>Lirceolus smithii</i>	Petitioned

1.2.4 Authorized Incidental Take

Authorized take permitted for the 15-year term of the ITP is provided in Table 2.

Table 1. USFWS Authorized Take.

Species Name (Common/ Scientific)	Habitat Surrogate	Authorized Take
Fountain Darter <i>Etheostoma fonticola</i>		
San Marcos Gambusia <i>Gambusia georgei</i>		
Comal Springs Dryopid Beetle <i>Stygoparnus comalensis</i>		
Comal Springs Riffle Beetle <i>Heterelmis comalensis</i>		
Peck's Cave Amphipod <i>Stygobromus pecki</i>		
Texas Wild Rice <i>Zizania texana</i>		
Texas Blind Salamander <i>Eurycea (+Typhlomolge) rathbuni</i>		
San Marcos Salamander <i>Eurycea nana</i>		
Texas Cave Diving Beetle <i>Haideoporus texanus</i>		
Comal Springs Salamander <i>Eurycea sp.</i>		
Texas Troglobitic Water Slater <i>Lirceolus smithii</i>		

1.3 Annual Reporting Compliance

Identify the annual reporting compliance requirements outlined in the HCP/ITP
< To be prepared by SWCA >

1.4 Habitat Conservation Plan Management

Introduction write-up to the management and financing of the HCP and its programs
< To be prepared by SWCA >

1.4.1 Edwards Aquifer Conditions/ Management

Discuss aquifer levels through the year, and aquifer related management activities (CPM)
< To be prepared by EAA >

1.4.2 2013 Financial Report

Discuss expenditures by the EAA on implementation activities include money acquired through AMFs, total expenditures, balance in the reserve fund, and anticipated monies acquired (AMFs)/expended for 2014.
< To be prepared by EAA >

1.5 Habitat Conservation Plan Committee Activities

Introduction write-up on the requirement for HCP committees/review panels,
< To be prepared by SWCA >

1.5.1 Implementing Committee

Discuss the purpose of the Implementing Committee, their role and duties, etc
< To be prepared by SWCA >

1.5.2 Stakeholder Committee

Discuss the purpose of the Stakeholder Committee, their role and duties, etc
< To be prepared by SWCA >

1.5.3 Science Committee

Discuss the purpose of the Science Committee, their role and duties, etc
< To be prepared by SWCA >

1.5.4 Science Review Panel

Discuss the purpose of the Science Review Panel, their role and duties, etc –activities taken in 2013 (under contract??), and the National Academy of Science
< To be prepared by SWCA >

2.0 BIOLOGICAL GOALS AND OBJECTIVES FOR COVERED SPECIES

Insert a brief introduction on the species covered in the HCP.
Introduction to the Biological Goals and Objectives in the HCP (overview)

For each species, provide a description of species specific research and management actions undertaken with specific reference to the biological goals and objectives identified for each species and the evaluation of progress toward achieving the biological goals and objectives outline in Chapter 4 of the HCP.

< To be prepared by SWCA >

2.1 Fountain Darter

< To be prepared by SWCA >

2.2 San Marcos Gambusia

< To be prepared by SWCA >

2.3 Comal Springs Dryopid Beetle

< To be prepared by SWCA >

2.4 Comal Springs Riffle Beetle

< To be prepared by SWCA >

2.5 Peck's Cave Amphipod

< To be prepared by SWCA >

2.6 Texas Wild Rice

< To be prepared by SWCA >

2.7 Texas Blind Salamander

< To be prepared by SWCA >

2.8 San Marcos Salamander

< To be prepared by SWCA >

2.9 Other Covered Species

< To be prepared by SWCA >

3.0 MINIMIZATION AND MITIGATION MEASURES

Insert a brief introduction for this chapter
< To be prepared by SWCA >

3.1 Edwards Aquifer Authority

Provide a brief introduction on the Edwards Aquifer Authority and its actions under the HCP.
- each of the following sub-section should address: 1) obligations and physical action/activity, 2) any modification or activity due to drought, and 3) how the activity is in or is not in full compliance with the EAHCP and ITP.
< To be prepared by EAA >

3.1.1 Applied Research (HCP §5.1.1 and §6.3.4)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by EAA >

Modifications Due to Drought Conditions:

< To be prepared by EAA >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.
-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.
-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).
< To be prepared by EAA >

Compliance with the HCP and ITP:

< To be prepared by EAA >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.1.2 VISPO (HCP §5.1.2)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by EAA >

Modifications Due to Drought Conditions:

< To be prepared by EAA >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

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< To be prepared by EAA >

Compliance with the HCP and ITP:

< To be prepared by EAA >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.1.3 Regional Water Conservation Program (HCP §5.1.3)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by EAA >

Modifications Due to Drought Conditions:

< To be prepared by EAA >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by EAA >

Compliance with the HCP and ITP:

< To be prepared by EAA >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.1.3.1 Regional Water Conservation Monitoring Committee

Provide a discussion on the committee and its efforts in accordance with the HCP

< To be prepared by EAA >

3.1.4 Critical Period Management – Stage V (HCP §5.1.4)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by EAA >

Modifications Due to Drought Conditions:

< To be prepared by EAA >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by EAA >

Compliance with the HCP and ITP:

< To be prepared by EAA >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.1.5 Expanded Water Quality Monitoring (HCP §5.7.2)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by EAA >

Modifications Due to Drought Conditions:

< To be prepared by EAA >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by EAA >

Compliance with the HCP and ITP:

< To be prepared by EAA >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.1.5.1 Water Quality Data

< To be prepared by EAA>

3.1.5.2 Location of Sampling Sites

< To be prepared by EAA>

3.1.5.3 Methods for Data Collections and Variables Measured

< To be prepared by EAA>

3.1.5.4 Frequency, Timing, and Duration of Sampling for the Variables

< To be prepared by EAA>

3.1.5.5 Description of the Data Analysis

Provide a description of the data analysis and information who conducted the analysis

< To be prepared by EAA>

3.1.5.6 2012 Hydrological Report

< To be prepared by EAA>

3.1.6 Biological Monitoring (HCP §6.3.1)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by EAA >

Modifications Due to Drought Conditions:

< To be prepared by EAA >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by EAA >

Compliance with the HCP and ITP:

< To be prepared by EAA >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.1.7 Groundwater Modeling (HCP §6.3.2)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by EAA >

Modifications Due to Drought Conditions:

< To be prepared by EAA >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by EAA >

Compliance with the HCP and ITP:

< To be prepared by EAA >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.1.8 Ecological Modeling (HCP §6.3.3)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by EAA >

Modifications Due to Drought Conditions:

< To be prepared by EAA >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by EAA >

Compliance with the HCP and ITP:

< To be prepared by EAA >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.1.9 Program Management (Funding and Management Agreement)

< To be prepared by EAA >

3.1.10 Public Outreach Initiatives

Discuss any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, signage, education efforts, etc.

< To be prepared by EAA >

3.2 City of New Braunfels

Provide a brief introduction on the City of New Braunfels and its tasks under the HCP.

- each of the following sub-sections should address: 1) obligations and physical action/activity, 2) any modification or activity due to drought, and 3) how the activity is in or is not in full compliance with the EAHCP and ITP.

< To be prepared by CONB >

3.2.1 Flow-Split Management in the Old and New Channel (HCP §5.2.1)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may

include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.2 Native Aquatic Vegetation Restoration and Maintenance (HCP §5.2.2)

This section should include the Old Channel Environmental Restoration and Protection Area activities, the Comal River Restoration activities, and the Native Aquatic Vegetation Maintenance activities. Provide an introduction as such.

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.3 Management of Public Recreational Use of Comal Springs and River Ecosystems (HCP §5.2.3)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.4 Decaying Vegetation Removal and Dissolved Oxygen Management (HCP §5.2.4)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.5 Control of Harmful Non-Native Animal Species (HCP §5.2.5)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

- Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.
 - Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.
 - Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).
- < To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.6 Monitoring and Reduction of Gill Parasites (HCP §5.2.6)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

- Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.
- Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.
- Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may

include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).
< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.7 Prohibition of Hazardous Materials Transport Across the Comal River and Its Tributaries (HCP §5.2.7)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.8 Native Riparian Habitat Restoration (HCP §5.2.8 and §5.7.1)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.9 Reduction of Non-Native Species Introduction and Live Bait Prohibition (HCP §5.2.9)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.10 Little Collection and Floating Vegetation Management (HCP §5.2.10)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may

include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).
< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.11 Management of Golf Course Diversions and Operations (HCP §5.2.11)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.12 Management of Household Hazardous Wastes (HCP §5.7.5)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.13 Impervious Cover and Water Quality Protection (HCP §5.7.6)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by CONB >

Modifications Due to Drought Conditions:

< To be prepared by CONB >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by CONB >

Compliance with the HCP and ITP:

< To be prepared by CONB >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.2.14 Public Outreach Initiatives

Discuss any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, signage, education efforts, etc.

< To be prepared by CONB >

3.3 City of San Marcos

Provide a brief introduction on the City of San Marcos and its tasks under the HCP

- each of the following sub-sections should address: 1) obligations and physical action/activity, 2) any modification or activity due to drought, and 3) how the activity is in or is not in full compliance with the EAHCP and ITP.

< To be prepared by COSM >

3.3.1 Texas Wild-Rice Enhancement and Restoration (HCP §5.3.1 and §6.3.5)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.2 Management of Recreation in Key Areas (HCP §5.3.2)

This section should include Management of Public Recreation Use of San Marcos Springs and River Ecosystems. Provide an introduction as such

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.3 Management of Aquatic Vegetation and Litter below Sewell Park (HCP §5.3.3)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.4 Prohibition of Hazardous Materials Transport Across the San Marcos River and Its Tributaries (HCP §5.3.4)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.5 Reduction of Non-Native Species Introduction (HCP §5.3.5)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.6 Sediment Removal Below Sewell Park (HCP §5.3.5)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.7 Designation of Permanent Access Points and Bank Stabilization (HCP §5.3.7)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.8 Control of Non-Native Plant Species (HCP §5.3.8)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.9 Control of Harmful Non-Native and Predator Species (HCP §5.3.9)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.10 Native Riparian Habitat Restoration (HCP §5.7.1)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.11 Septic System Registration and Permitting Program (HCP §5.7.3)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.12 Minimizing Impacts of Contaminated Runoff (HCP §5.7.4)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.13 Management of Household Hazardous Wastes (HCP §5.7.5)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.14 Impervious Cover and Water Quality Protection (HCP §5.7.6)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by COSM >

Modifications Due to Drought Conditions:

< To be prepared by COSM >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

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< To be prepared by COSM >

Compliance with the HCP and ITP:

< To be prepared by COSM >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.3.15 Public Outreach Initiatives

Discuss any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, signage, education efforts, etc.

< To be prepared by COSM >

3.4 Texas State University

Provide a brief introduction on the Texas State University and its tasks under the HCP.

- each of the following sub-sections should address: 1) obligations and physical action/activity, 2) any modification or activity due to drought, and 3) how the activity is in or is not in full compliance with the EAHCP and ITP.

< To be prepared by TSU >

3.4.1 Texas Wild-Rice Enhancement and Restoration (HCP §5.4.1)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.2 Management of Recreation in Key Areas (HCP §5.4.2)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.3 Management of Vegetation (HCP §5.4.3)

This section should in Management of Submerged and Floating Aquatic Vegetation in Spring Lake. Provide an introduction as such.

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.4 Sediment Removal in Spring Lake and from Spring Lake Dam to City Park (HCP §5.4.4)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.5 Diversion of Surface Water (HCP §5.4.5)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.6 Sessom Creek Sand Bar Removal (HCP §5.4.6)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.7 Diving Classes in Spring Lake (HCP §5.4.7)

This section should include the Texas State SCUBA Classes.

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.8 Research Programs in Spring Lake (HCP §5.4.8)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.9 Management of Golf Course and Grounds (HCP §5.4.9)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.10 Boating in Spring Lake and Sewell Park (HCP §4.10)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.11 Reduction of Non-Native Species Introduction (HCP §5.4.11)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.12 Control of Non-Native Plant Species (HCP §5.4.12)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may

include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).
< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.13 Control of Harmful Non-Native and Predator Species (HCP §5.4.13)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TSU >

Modifications Due to Drought Conditions:

< To be prepared by TSU >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TSU >

Compliance with the HCP and ITP:

< To be prepared by TSU >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.4.14 Public Outreach Initiatives

Discuss any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, signage, education efforts, etc.

< To be prepared by TSU >

3.5 San Antonio Water System

Provide a brief introduction on the San Antonio Water System and its tasks under the HCP.

SAWS, with the assistance of the Regional Advisory Group will describe in the Annual Report the storage and recovery activities (HCP page 5-39).

- each of the following sub-sections should address: 1) obligations and physical action/activity, 2) any modification or activity due to drought, and 3) how the activity is in or is not in full compliance with the EAHCP and ITP.

< To be prepared by SAWS >

3.5.1 Use of the SAWS ASR for Spring Flow Protection (HCP §5.5.1)

Obligations:

< To be prepared by SWCA >

2013 Compliance Actions:

< To be prepared by SAWS >

Modifications Due to Drought Conditions:

< To be prepared by SAWS >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by SAWS >

Compliance with the HCP and ITP:

< To be prepared by SAWS >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.5.1.1 SAWS ASR Advisory Committee

Provide a discussion on the committee and its efforts in accordance with the HCP

< To be prepared by SAWS>

3.5.1.2 Status of SAWS ASR Lease Acquisition

Provide a discussion on the committee and its efforts in accordance with the HCP

< To be prepared by SARA/EAA>

3.5.2 Public Outreach Initiatives

Discuss any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, signage, education efforts, etc.

< To be prepared by SAWS >

3.6 Texas Parks and Wildlife Department

Provide a brief introduction on the TPWD and its tasks under the HCP

- each of the following sub-sections should address: 1) obligations and physical action/activity, 2) any modification or activity due to drought, and 3) how the activity is in or is not in full compliance with the EAHCP and ITP.

< To be prepared by TPWD >

3.6.1 State Scientific Areas (HCP §5.6.1)

Obligations:

< To be prepared by SWCA>

2013 Compliance Actions:

< To be prepared by TPWD >

Modifications Due to Drought Conditions:

< To be prepared by TPWD >

Challenges Observed and Identified Solutions:

-Discuss any challenges encountered and the solutions made to address those challenges. This may include simple changes in the materials used, or minor changes in approach, or slight variations from what was originally proposed in the HCP.

-Include any wildlife impacts that may have occurred that were not initially planned for and the measures taken to reduce continued impacts by wildlife, if any.

-Include any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, security, fines, or additional public outreach efforts (e.g., signage, education efforts, etc.).

< To be prepared by TPWD >

Compliance with the HCP and ITP:

< To be prepared by TPWD >

Proposed Activities for 2014:

<To be prepared by SWCA>

3.6.2 Public Outreach Initiatives

Discuss any unauthorized activities by the public that have resulted in counter impacts and discuss the enforcement measures in placed to reduce any unauthorized activities. Unauthorized activities may include trespassing, dumping, theft of supplies, destruction of habitat, etc. Enforcement may include policing, signage, education efforts, etc.

< To be prepared by TPWD >

4.0 ADAPTIVE MANAGEMENT ACTIVITIES FOR 2013

Insert a brief introduction for this chapter

Discuss the purpose for adaptive management activities.

- The results of these programs as well as information on the implementation of the minimization and mitigation measures will be included in the annual reports to allow the USFWS to fulfill its responsibility to monitor the implementation and success of the HCP, including the adaptive management commitments. (HCP page 6-2)

- This information, along with compliance with TCEQ Texas Pollution Discharge Elimination System (TPDES) dry weather field screening program data, BMP treatment capabilities, and compliance with the Texas Surface Water Quality Standards (TSWQS) will help support adaptive management decisions and if applicable, will be included in the Annual Report. (HCP page 6-2)

-The Applicants will prepare and submit a Monitoring Report to be included as part of the Annual Report to be submitted to the USFWS. (HCP page 6-3)

< To be prepared by EAA >

4.1 Informational Memorandums

< To be prepared by EAA >

4.2 Changes to Objectives Outlined in the HCP

< To be prepared by EAA >

5.0 2013 ANNUAL TAKE ESTIMATES

Insert a brief introduction for this chapter. Include the methods for estimating take for the year
< To be prepared by BIOWEST >

5.1 Estimation of Annual Take

< To be prepared by BIOWEST >

5.1.1 Texas Blind Salamander

< To be prepared by BIOWEST >

5.1.2 San Marcos Salamander

< To be prepared by BIOWEST >

5.1.3 Fountain Darter

< To be prepared by BIOWEST >

5.1.4 San Marcos Gambusia

< To be prepared by BIOWEST >

5.1.5 Comal Springs Riffle Beetle

< To be prepared by BIOWEST >

5.1.6 Comal Springs Dryopid Beetle

< To be prepared by BIOWEST >

5.1.7 Texas Wild-Rice

< To be prepared by BIOWEST >

5.1.8 Other Species

< To be prepared by BIOWEST >

5.2 Evaluation of Effects on the Plan Area

This section will discuss compliance with the 10% habitat restriction outlined in Section M of the ITP, as well as any other impacts to the plan area resulting from HCP activities. (*BIOWEST*)

< To be prepared by EAA/ BIOWEST >

6.0 RECOMMENDATIONS

Insert a brief introduction for this chapter and outline the recommendations moving forward.
Subsections to be added as needed.

7.0 RELEVANT PUBLICATIONS

Insert relevant publications pertaining to the covered species and the efforts conducted.
< To be prepared by SWCA >

8.0 WORKS CITED

Insert references.

< To be prepared by SWCA >

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APPENDICES

<SEPARATE COVER PAGES TO BE SET UP FOR THE FOLLOWING APPENDICES>

- b) EAA Permitted Wells
- c) Reference Well Levels
- d) Springflow Levels (Comal and San Marcos Springs)
- e) Aquifer Recharge Report/ Aquifer Discharge Report (place holder for Hydro Report)
- f) Critical Period Management Report
- g) Water Quality Data/Maps, etc.
- h) Drought Contingency Meeting Summaries and Low-Flow Memos
- i) Progress Reports
 - a. City of San Marcos
 - b. City of New Braunfels
 - c. Edwards Aquifer Authority
- j) Minutes/Agendas
 - a. Implementing Committee
 - i. Work Groups of the IC
 - b. Stakeholder Committee
 - c. Science Committee
 - d. Science Review Panel
 - e. ASR Advisory
 - f. RWCP Advisory