Annual Report Draft Outline

Edwards Aquifer Habitat Conservation Plan

SWCA Responsibility: The SWCA will be responsible for coordinating with HCP staff members to secure necessary information regarding the various sections, formatting the drafts and final report of the document including appendices, figures, and tables once all information has been received, conducting an extensive literature review, preparing the executive summary, providing language to verify compliance with the ITP, presenting drafts to various HCP Committees, and incorporating comments from the Committee members into the draft documents.

The SWCA will be responsible for ensuring compliance with the Annual Report guidelines as provided in the Incidental Take Permit and Habitat Conservation Plan.

Executive Summary (each subject will be one paragraph in length)

To be prepared by SWCA

a) Background (brief)
b) Description of listed species
c) Program administration
d) Expenditures
e) Restoration/Conservation Measures
f) Monitoring Measures
g) Research Activities
h) Modeling Activities
i) Biological Goals and Objectives

Report

a) Table of Contents *(SWCA)*
b) Background *(SWCA)*
c) ITP Permit Requirements *(SWCA)*
d) Edwards Aquifer Conditions/Management (very high level) *(EAA)*
e) Financial Report—expenditures by the EAA on Implementation Activities (EAA)
f) Activities of the Implementing Committee *(SWCA)*
g) Activities of the Stakeholder Committee *(SWCA)*
h) Activities of the Science Committee *(SWCA)*
i) Activities of the Science Review Panel *(SWCA)*
j) Edwards Aquifer Authority *(EAA) - each of the following sections should address: 1) physical action/activity, 2) affect to each covered species, 3) any modification or activity due to drought, and 4) how the activity is in or is not in full compliance with the EAHCP and ITP.*
    a. Applied Research
    b. VISPO
    c. Regional Water Conservation Program
        i. Implementation
        ii. Regional Water Conservation Monitoring Committee
    d. Critical Period Management – Stage V
    e. Expanded Water Quality Monitoring
        i. Water Quality Data
        ii. Location of Sampling Sites
        iii. Methods for data collections and variables measured

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iv. Frequency, timing, and duration of sampling for the variables
v. Description of the data analysis and who conducted the analysis
vi. 2012 Hydro Report

f. Biological Monitoring
g. Groundwater Modeling
h. Ecological Modeling
i. Program Management

k) City of New Braunfels *(City of New Braunfels) - each of the following sections should address: 1) physical action/activity, 2) affect to each covered species, 3) any modification or activity due to drought, and 4) how the activity is in or is not in full compliance with the EAHCP and ITP.*

a. Flow-Split Management in the Old and New Channel
b. Native Aquatic Vegetation Restoration and Maintenance
c. Old Channel Environmental Restoration and Protection Area
d. Comal River Restoration
e. Native Aquatic Vegetation Maintenance
f. Management of Public Recreational Use of Comal Springs and River Ecosystems
g. Decaying Vegetation Removal and Dissolved Oxygen Management
h. Control of Harmful Non-Native Animal Species
i. Monitoring and Reduction of Gill Parasites
j. Prohibition of Hazardous Materials Transport Across the Comal River and Its Tributaries
k. Native Riparian Habitat Restoration
l. Reduction of Non-Native Species Introduction and Live Bait Prohibition
m. Little Collection and Floating Vegetation Management
n. Management of Golf Course Diversions and Operations
o. Native Riparian Habitat Restoration
p. Management of Household Hazardous Wastes
q. Impervious Cover/Water Quality Protection

l) City of San Marcos *(City of San Marcos) - each of the following sections should address: 1) physical action/activity, 2) affect to each covered species, 3) any modification or activity due to drought, and 4) how the activity is in or is not in full compliance with the EAHCP and ITP.*

a. Texas Wild-Rice Enhancement and Restoration
b. Management of Recreation in Key Areas
c. Management of Public Recreational Use of San Marcos Springs and River Ecosystem
d. Management of Aquatic Vegetation and Litter Below Sewell Park
e. Prohibition of Hazardous Materials Transport Across the San Marcos Rive and Its Tributaries
f. Reduction of Non-Native Species Introduction
g. Sediment Removal Below Sewell Park
h. Designation of Permanent Access Points/Bank Stabilization
i. Control of Non-Native Plant Species
j. Control of Harmful Non-Native and Predator Species
k. Native Riparian Habitat Restoration
l. Septic System Registration and Permitting Program
m. Minimizing Impacts of Contaminated Runoff
n. Management of Household Hazardous Wastes
o. Impervious Cover/Water Quality Protection

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m) Texas State University *(Texas State University) - each of the following sections should address: 1) physical action/activity, 2) affect to each covered species, 3) any modification or activity due to drought, and 4) how the activity is in or is not in full compliance with the EAHCP and ITP.*
    a. Texas Wild-Rice Enhancement and Restoration
    b. Management of Recreation in Key Areas
    c. Management of Vegetation
    d. Management of Submerged and Floating Aquatic Vegetation in Spring Lake
    e. Management of Aquatic Vegetation from Sewell Park to City Park
    f. Sediment Removal in Spring Lake and from Spring Lake Dam to City Park
    g. Diversion of Surface Water
    h. Sessom Creek Sand Bar Removal
    i. Diving Classes in Spring Lake
    j. Texas State SCUBA classes
    k. Research Programs in Spring Lake
    l. Management of Golf Course and Grounds
    m. Boating in Spring Lake and Sewell Park
    n. Reduction of Non-Native Species Introduction
    o. Control of Non-Native Plant Species
    p. Control of Harmful Non-Native and Predator Species

n) San Antonio Water System - *each of the following sections should address: 1) physical action/activity, 2) affect to each covered species, 3) any modification or activity due to drought, and 4) how the activity is in or is not in full compliance with the EAHCP and ITP.*
    a. Use of the SAWS ASR for Springflow Protection *(San Antonio Water System)*
        i. SAWS ASR Advisory Committee *(San Antonio Water System)*
        ii. Status of SAWS ASR lease acquisition *(San Antonio River Authority)*

o) Texas Parks and Wildlife Department *(Texas Parks and Wildlife Department) - each of the following sections should address: 1) physical action/activity, 2) affect to each covered species, 3) any modification or activity due to drought, and 4) how the activity is in or is not in full compliance with the EAHCP and ITP.*
    a. State Scientific Areas

p) Adaptive Management Activities undertaken during the year (EAA)
    a. Informational Memorandums may go here
    b. Changes to Objectives?

q) Biological Goals and Objectives—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 outlined in Chapter 4 of the EAHCP *(SWCA)*
    a. Fountain Darter
    b. Texas Blind Salamander
    c. Comal Springs Riffle Beetle
    d. San Marcos Salamander
    e. Comal Springs Dryopid Beetle
    f. Comal Springs Riffle Beetle
    g. San Marcos Gambusia
    h. Texas Wild-Rice
    i. Other Species

r) Estimation of Annual Take (*BioMonitoring Contractor – EAA*)
    a. Fountain Darter
    b. Texas Blind Salamander

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    c. Comal Springs Riffle Beetle
    d. San Marcos Salamander
    e. Comal Springs Dryopid Beetle
    f. Comal Springs Riffle Beetle
    g. San Marcos Gambusia
    h. Texas Wild-Rice
    i. Other Species

s) Evaluation of effects on 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)*

t) Proposed Activities for next year – reference activities from the Work Plans *(SWCA—using 2014 Work Plans which are already complete).*
    a. Edwards Aquifer Authority
    b. City of New Braunfels
    c. City of San Marcos
    d. Texas State University
    e. San Antonio Water System
    f. Texas Parks and Wildlife Department

u) Recommendations moving forward – if any

v) Relevant Publications, etc. *(SWCA)*

w) Works Cited *(SWCA)*

x) Attachments/Appendices *(SWCA)*

Appendices: *(Assembled by the SWCA)*

a) EAA Permitted Wells
b) Reference Well Levels
c) Springflow Levels (Comal and San Marcos Springs)
d) Aquifer Recharge Report/ Aquifer Discharge Report (place holder for Hydro Report)
e) Critical Period Management Report
f) Water Quality Data/Maps, etc.
g) Drought Contingency Meeting Summaries and Low-Flow Memos
h) Progress Reports
    a. City of San Marcos
    b. City of New Braunfels
    c. Edwards Aquifer Authority
i) 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

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