



REPORT TO THE LEGISLATURE

CALIFORNIA WETLAND MITIGATION BANKING

State of California
Natural Resources Agency
Department of Fish and Game

January 2010

Report To The Legislature
California Wetland Mitigation Banking
January 2010
Table of Contents

EXECUTIVE SUMMARY	i
Table 1 New Mitigation Banks on Record Since the 2007 Report to the Legislature	iii
Table 2. Credited Species and Habitat List from Fourteen Years of Banking	iv
I. BACKGROUND ON WETLAND MITIGATION BANKING	1
Conventional Mitigation	1
Wetland Mitigation Banking	2
II. DESCRIPTION OF WETLAND MITIGATION BANKING REPORT INFORMATION.....	5
Statutory Reporting Requirements.....	5
Description of the Reporting Requirements and Information Included in this Report.....	6
Description and Explanation of Wetland Establishment.....	12
Description and Explanation of Habitat Functions.....	14
Description and Explanation of Biological Productivity	15
III. DATA COLLECTION.....	16
IV. CONCLUSION.....	18
Table 3. Distribution of All Banks in California by County	19
Data Management and Information Distribution	19
Table 4. Overview of Wetland Mitigation Banks in California.	21
Appendix A. Wetland Mitigation Banks in California, January 2010	A-1
Barry Jones Wetland Mitigation Bank.....	A-1
Burdell Ranch Wetland Mitigation Bank.....	A-3
Carinalli-Todd Road Mitigation Bank	A-5
Clay Station Mitigation Bank.....	A-7
Cottonwood Creek Wetland Mitigation Bank	A-9
Desmond Mitigation Bank.....	A-11
Elsie Gridley Mitigation Bank	A-13
Hale Mitigation Bank.....	A-15
Hazel Mitigation Bank.....	A-17
Honey Lake Wetlands Mitigation Bank	A-19
Horn Mitigation Bank	A-21
Kimball Island Mitigation Bank.....	A-23
Laguna (Carinalli) Mitigation Bank	A-25
North County Habitat Bank.....	A-27
North Suisun Mitigation Bank	A-29
Pilgrim Creek Mitigation Bank.....	A-31
Rancho Jamul Mitigation Bank	A-33
Southwest Santa Rosa Vernal Pool Preservation Bank.....	A-36
Stillwater Plains Mitigation Bank.....	A-38
Van Vleck Ranch Mitigation Bank.....	A-40
Wikiup Mitigation Bank	A-42
Wildlands Mitigation Bank.....	A-44
Wright Mitigation Bank.....	A-51
Appendix B. Overview of Conservation Banks in California with Wetland Components.....	B-1
Appendix C. Overview of Non-wetland Conservation Banks in California	C-1
Appendix D. Official Policy on Conservation Banks, April 7, 1995	D-1

EXECUTIVE SUMMARY

Attached is the fifth biennial Report to the Legislature on Wetland Mitigation Banks as required under Section 1851 of the California Fish and Game Code. Copies of the previous reports are available at <http://www.dfg.ca.gov/habcon/conplan/mitbank/>.

Fish and Game Code Section 1851 requires that the following information be reported for each wetland mitigation bank (“mitigation bank”):

- Bank creator contact information
- Bank operator contact information
- Bank creation date
- Bank's service area description
- Pre-bank habitat functions on site
- Types of financial assurances
- Bank goals
- Wetland acres and habitat functions created
- Credits issued
- Biological productivity of created wetlands
- Wetland acres and habitat functions lost as result of permitted projects

This report provides an overview of wetland banking in California and the status of California's wetland mitigation banks. It contains cumulative information, as well as information on six new banks established during the period July 2007 to June 2009 (Table 1). Topics include background information describing wetland mitigation and mitigation banking, descriptive and explanatory information about the wetland mitigation bank information contained in the report, and methods for compiling, managing, and distributing that information. A list of the mitigation banks included in the report is provided in Table 4, and status information about each mitigation bank is provided in Appendix A.

In addition to wetland mitigation banks, the State of California collaborates with

federal agencies in conservation banking, a compensatory mitigation program similar to wetland mitigation banking that addresses the mitigation requirements for projects impacting upland habitats or that may result in the take of threatened or endangered species. Conservation banks are not discussed in detail in this Legislative Report, as the reporting requirement is specific to wetland mitigation banks; however, in past editions of this report several conservation banks with seasonal wetland components have been included. In this edition, these seasonal wetland and species conservation banks have been removed from Appendix A, but have been included, as a courtesy, in a separate Appendix B. The California Department of Fish and Game (CDFG) is signatory to 24 additional conservation banks which are listed in Appendix C. A list of all banks that CDFG is signatory to is available online at <http://www.dfg.ca.gov/habcon/conplan/mitbank/catalogue/catalogue.html>.

Information on mitigation and conservation banks in California to which CDFG is NOT signatory may be found on the U.S. Army Corps of Engineer's Regional Internet Bank Information Tracking System (R.I.B.I.T.S.) and <http://216.88.232.125:443/pbs/html/db/f?p=101>. In fact, CDFG is currently working with its MOU partner agencies in several bank tracking projects. In addition to R.I.B.I.T.S., the U.S. Fish and Wildlife Service has begun a conservation bank tracking pilot program in partnership with speciesbanking.com and Markit Environmental Registry. Many CDFG co-signed banks are also listed in these online databases. Through our continuing work with MOU partner agencies to expedite the population of data in these web-based data tracking systems, we anticipate that in the near future most of the data included in this biennial Wetland Mitigation Bank Legislative Report will be easily downloadable and available to the public in real time.

Table 1. New Mitigation Banks on Record Since the 2007 Biennial Legislative Report

Name of Bank (Appendix page #)	County where bank is located	Date the bank was created	Overall acreage of the bank	Wetland acreage established at the bank	# wetland credits established
Carinalli Todd Road Mitigation Bank	Sonoma	2/3/2009	66.55	39.43	21.06
Elsie Gridley Mitigation Bank	Solano	3/8/2006	1814.83	410.29	410.29
Hale Mitigation Bank	Sonoma	7/1/2002	75.0	41.0	17.7
North County Habitat Bank	San Diego	5/23/2007	14.15	14.15	See appendix
North Suisun Mitigation Bank	Solano	1/30/2007	608.75	170.9	156.300
Van Vleck Ranch Mitigation Bank	Sacramento	4/3/2009	775.03	52.92	43.34

The following are general statistics of banks within CDFG's mitigation and conservation banking program. Similar statistics included at the conclusion of this Legislative Report pertain to wetland mitigation banks only.

- CDFG is signatory to 38 active mitigation and/or conservation banks
- CDFG is signatory to 15 banks that have sold out their established credits.
- CDFG holds fee title to 16 banks
- CDFG is the grantee of conservation easements on 27 banks.
- The smallest bank in acreage is 11.96 acres, while the largest is 6059 acres
- 31 species and 23 habitat types have been credited over the years (Table 2)

Table 2. Credited Species and Habitats List from 14 Years of Banking

Credited Species	Credited Habitats
Alameda Whipsnake	Alluvial Fan Sage Scrub
Blunt-Nosed Leopard Lizard	Chaparral
Burke's Goldfields	Coast Live Oak Woodland
Butte County Meadowfoam	Coastal Sage Scrub
California Orange Throated Whiptail	Emergent Marsh
California Red-legged Frog	Freshwater Marsh
California Tiger Salamander	Inland Sage Scrub
Coastal California Gnatcatcher	Jurisdictional Riparian
Giant Garter Snake	Native Grassland
Giant Kangaroo Rat	Non-native Grassland
Hoover's Eriastrum	Non-tidal Wetlands
Kern Mallow	Oak Riparian Woodland
Orange Throated Whiptail	Riversidian Sage Scrub
Recurved Larkspur	Southern Maritime Chaparral
San Diego Thorn Mint	Swainson's Hawk Foraging Habitat
San Joaquin Antelope Squirrel	Upland Habitat
San Joaquin Kit Fox	Valley Oak Woodland
San Joaquin Le Conte's Thrasher	Vernal Pool
San Joaquin Wooly Threads	Vernal Swale
Sebastopol Meadowfoam	Western Burrowing Owl Foraging
Short-Nosed Kangaroo Rat	Habitat
Slough Thistle	Wetlands
Sonoma Sunshine	Woody Riparian
Southern Pond Turtle	
Swainson's Hawk	
Threatened and Endangered Species	
Tipton Kangaroo Rat	
Vernal Pool Fairy Shrimp	
Vernal Pool Tadpole Shrimp	
Valley Elderberry Longhorn Beetle	
Western Burrowing Owl	
Western Pond Turtle	

I. BACKGROUND ON WETLAND MITIGATION BANKING

Under existing state and federal statutes, any individual, firm, or public agency that undertakes activities that destroy, degrade, or adversely alter the environment may be required to compensate the public for impacts to natural resources. A project proponent may be required to permanently set aside and/or restore a specified amount of acreage or resources, or may be allowed to purchase credits at a mitigation bank.

Environmental mitigation is required under several California State laws. For example, compensatory mitigation may be required under the California Environmental Quality Act if a proposed project will "substantially diminish habitat for fish, wildlife or plants." Mitigation may also be required as a condition to "take" (kill, capture, etc.) a species under the California Endangered Species Act.

Similarly federal statutes, such as the Clean Water Act, require mitigation for activities that alter or harm existing wetlands. A habitat conservation plan that is designed to protect and recover a threatened or endangered species under the federal Endangered Species Act, may require that a landowner "minimize or mitigate" for activities that are damaging to the species.

Conventional Mitigation

Despite its purpose to offset environmental impacts, mandated mitigation for single-projects is often insufficient to offset the full impacts of development on biological resources. When mitigation is applied at the development (project) site, piecemeal patches of ineffective conservation are often the result. Applying mitigation in this piecemeal fashion does not address the broader conservation objectives federal, state and local agencies have for the region within which the development is proposed to occur.

Typical conventional mitigation is perhaps best illustrated by the following example. A property owner who seeks to develop or alter his or her property may take the steps necessary to satisfy mitigation requirements by protecting a portion of the property to be developed. On a parcel of ten acres, for example, two or three acres may be set aside as a "reserve" in order to mitigate for the proposed development. Such a set-aside reserve may not be of high ecological importance, and not substantially

advance regional environmental objectives nor provide for the long-term viability, connectivity, and functional value of the resources (species and habitats) impacted. In short, the set-aside reserve may lose some or all of its biological value because of its small size and isolation from other protected areas.

In addition, the process of designing, implementing, managing and monitoring each new mitigation set-aside for each development project can be time consuming and costly for the project proponent and regulatory agencies. In contrast, larger and connected tracts of open space may be managed and monitored as one large reserve; providing project proponents and regulators with a more affordable long term management option.

Wetland Mitigation Banking

Since the mid-1980s, the State of California and others have actively sought to prevent the inadequate, small, fragmented habitat reserves that often resulted from project-by-project mitigation. One approach to remedy the inadequacy of single-project mitigation has been the development of mitigation banks. Wetland mitigation banks are generally large or connected areas of preserved, restored, enhanced, or constructed wetlands set aside for the express purpose of providing mitigation for project impacts to wetland habitats. A bank is authorized to sell credits which represent the habitat values created on the bank. Credits are sold to project proponents who need to provide compensation for unavoidable loss of wetlands due to development where avoidance or on-site mitigation is not feasible or desirable.

Mitigation banks may be used to consolidate single-project mitigation lands into large and ecologically meaningful reserves. Banks can also be designed to maximize the resulting biological and functional value of a site by restoring otherwise degraded habitat. For those parties needing to mitigate for project impacts, mitigation banks serve to streamline the regulatory process by providing a pre-established (i.e., advance) mitigation site which the regulating state and federal agencies have already confirmed will provide adequate and appropriate mitigation for certain wetland habitats or species (as specified in the bank agreement). By mitigating at a bank, the project proponent can avoid the time and cost of searching for a suitable mitigation site and having to protect it

themselves in perpetuity.

In summary, mitigation banks have several advantages over project-by-project mitigation sites, including:

- Advance Mitigation or Mitigation Before Impact. The wetland habitat can be created prior to project impacts reducing or eliminating temporal loss of habitat values and function.
- Large Reserve Size. The wetland mitigation from many small isolated impacts can be consolidated into larger areas of permanently protected habitat, contributing to larger intact ecosystems, which are likely to withstand environmental changes, including climate change, better than smaller isolated areas.
- Improved Resources and Expertise. Wetland banks can consolidate financial resources, planning, and biological expertise which improves the chance of successful establishment and long-term management of compensatory habitats.

In recent years, the State of California has sought to consolidate mitigation requirements for wetland impacts under the State Fish and Game Code and the Federal Clean Water Act.

In April 1995, the California Resources Agency and the California Environmental Protection Agency issued a joint policy on conservation (which includes mitigation) banks¹ (Appendix D). This policy provided the rationale for establishing banks, and direction on establishment and operation of banks. In addition, the 1993 California Wetlands Conservation Policy² identifies wetland mitigation banking as a tool that may be used as part of statewide and regional strategies to conserve wetlands.

In November 1995, five federal agencies including the Army Corps of Engineers (USACOE), Environmental Protection Agency (USEPA), Department of Agriculture's

¹ Resources Agency/California Environmental Projection Agency, Official Policy on Conservation Banks, April 7, 1995

² Wilson, Pete. Executive Order W-59-93. California Wetlands Conservation Policy. August 23, 1993.

Natural Resources Conservation Service (NRCS), Fish and Wildlife Service (USFWS), and the National Oceanic and Atmospheric Administration (NOAA) issued a formal policy on the establishment, use, and operation of mitigation banks³. The federal guidance was provided to assist the regulatory and banking community in meeting the requirements of Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, the wetland conservation provisions of the Food Security Act (FS) (i.e., “Swampbuster”), and other applicable federal statutes and regulations when undertaking wetland banking. The guidance was intended to clarify the applicability of existing federal requirements to wetland mitigation banking. It also designated the USACOE (or the NRCS) as the lead federal agency in the wetland bank establishment process.

The USEPA and the USACOE further developed their guidance on Compensatory Wetland Mitigation in 2003, which was revised and updated in the federal register in 2008⁴.

The 2008 federal rule established mitigation banking as the preferred method by which to provide compensatory mitigation for wetland impacts. As alternative mitigation methods, banking is followed in preference (according to the federal agencies) by In-Lieu Fee programs, and thirdly, by single party “set aside” (a.k.a. permittee responsible) mitigation sites. Under the federal mitigation bank establishment process, an Interagency Review Team (IRT, formerly Mitigation Bank Review Team, or MBRT) is formed, consisting of representatives of the agencies which have jurisdiction over, or an interest in wetlands. The California Department of Fish and Game (CDFG) is a participant on several IRTs throughout the state, which develop and approve the terms of each bank agreement. IRTs strive to obtain consensus in developing the terms of the bank agreement, and on any actions they take with regard to wetland bank establishment, site inspection/monitoring, credit release, management funding, and other aspects of wetland bank operations.

³ "Federal Guidance for the Establishment, Use and Operation of Mitigation Banks." Federal Register 60:228 (November 28, 1995), p. 58605-58614.

⁴ 2008 Compensatory Mitigation for Losses of Aquatic Resources. Final Rule. Federal Register. Vol. 73, No. 70: pp.19594-19705.

II. DESCRIPTION OF WETLAND MITIGATION BANKING REPORT INFORMATION

Statutory Reporting Requirements

Fish and Game Code Section 1851 requires that the following information be reported for each existing wetland mitigation bank that was in operation as of January 1, 2001, and that sells credits to the public in California:

- Bank creator contact information - "The name, address, and telephone number of the person or agency who created the wetland mitigation bank site."
- Bank operator contact information - "The name, address, and telephone number of the wetland mitigation bank operator and the address or other appropriate physical description of the location of the wetland mitigation bank site."
- Bank creation date - "The date the wetland mitigation bank site was created".
- Bank's service area - "A description of the wetland mitigation bank site's service area."
- Pre-bank habitat functions on site - "A description of existing habitat functions at the wetland mitigation bank site prior to its development as a wetland mitigation bank site."
- Types of financial assurances - "The type of financial assurances secured by the wetland mitigation bank operator to ensure management of the wetland mitigation bank site in perpetuity."
- Bank goals - "Whether goals were established for the wetland mitigation bank site, and what percentage of those goals has been achieved."
- Wetland acres and habitat functions established - "Utilizing existing information compiled by the United States Army Corps of Engineers or other federal agencies, the number of wetland acres and habitat functions created at the bank site."
- Credits issued - "The number of credits issued and to whom."
- Biological productivity of created wetlands - "An assessment of the

biological productivity of the created wetlands."

- Wetland acres and habitat functions lost as result of permitted projects - "Utilizing existing information that is publicly available within the records of state or federal agencies, a comparison of the wetland acreage and habitat functions that were created at the bank site and those that were lost as a result of the permitted projects for which credits were obtained."

Several of the wetland mitigation banks in California summarized in this report were established prior to enactment of Section 1851, and have annual reporting requirements that differ from the statute. CDFG has acquired as much of the information as is currently available, but some of the information requested under Section 1851 may be missing. Furthermore, Section 1851 does not define or provide guidance on how to report some of the specified items. To clarify what information is reported here, each of the reporting requirements is discussed in the next section.

Description of the Reporting Requirements and Information Included in this Report

Appendix A provides a brief overview of twenty-three existing wetland mitigation banks. The information for each bank is organized in four general sections:

Contact Information - bank owner and bank operator name and contact information.

Bank Information - bank creation date, total bank acreage, total wetland credits established, total wetland credits sold, and total wetland credits remaining for sale, general location of the bank, service area description, counties within the service area, financial assurance types, and signatory agencies.

Biological Information - bank site goals, percentage of goals achieved, wetland habitat functions before bank creation, wetland habitat functions created at the bank site, total wetland acres established, and overall wetland habitat success.

Operational Information - wetland functions lost to impacts, wetland acres lost to impacts, number of credits sold and to whom.

The direct statutory reference, a brief description, and all necessary additional information pertaining to each reporting requirement is listed below.

Bank creator contact information

Fish and Game Code Section 1851(a): "The name, address, and telephone number of the person or agency who created the wetland mitigation bank site."

Discussion: Bank creator is defined for the purposes of this report as the person or entity that signed the bank agreement. While the bank creator is often also the bank owner, some banks have had a change in property ownership since they were created. When an inquiry is made about a bank, the requestor usually wants to know who owns or operates the bank. Reporting information about the bank owner is more meaningful and useful than reporting information about the bank creator. Some banks have had more than one owner. The current bank owner is reported.

Information reported: In place of bank creator, bank owner name and contact information is reported for each bank. If the bank creator and the bank owner are not the same person or entity, the name of the bank creator is also provided.

Bank operator contact information

Fish and Game Code Section 1851(b): "The name, address, and telephone number of the wetland mitigation bank operator and the address or other appropriate physical description of the location of the wetland mitigation bank site."

Discussion: Some banks designate a separate entity or representative to manage their credit sales. If known, the contact information for credit sales manager is also reported.

Information reported: The name, address, and telephone number of the wetland mitigation bank operator are provided for each bank. If the bank operator has a website, the website address is also included. The address or other appropriate physical description of the location of the bank is provided under a separate heading, "General location of the bank."

Bank creation date

Fish and Game Code Section 1851(c): "The date the wetland mitigation bank site was created."

Discussion: The bank creation date is defined for the purposes of this report as the date that the bank agreement was signed by all parties. In some cases this may differ from the Bank Establishment Date as it is defined under the 2008 multi-agency approved mitigation bank agreement template. Formal bank establishment often requires a real estate protection measure, such as a conservation easement, be in place. Bank agreements, also called Bank Enabling Instruments (BEI), allowed variation in bank establishment criteria prior to 2008.

Information reported: The bank creation date is reported for each bank.

Bank's service area

Fish and Game Code Section 1851(d): "A description of the wetland mitigation bank site's service area."

Discussion: A bank's service area is defined for the purposes of this report as the geographic area within which the bank credits can reasonably be expected to appropriately serve as mitigation for projects impacting wetlands. A bank's service area may overlap only a portion of a county.

Information reported: A description of the wetland mitigation bank site's service area is provided for each bank. A list of the counties which the service area overlaps is also included.

Pre-bank habitat functions on site

Fish and Game Code Section 1851(e): "A description of existing habitat functions at the wetland mitigation bank site prior to its development as a wetland mitigation bank site."

Discussion: Habitat functions are described and explained in detail in the "Description and Explanation of Habitat Functions" section of this report.

Information reported: Existing wetland habitat functions at the wetland mitigation bank site prior to its development as a wetland mitigation bank site are listed for each bank.

Types of financial assurances

Fish and Game Code Section 1851(f): "The type of financial assurances secured by the wetland mitigation bank operator to ensure management of the wetland mitigation bank site in perpetuity."

Discussion: Financial assurances are mechanisms to ensure that the obligations of a mitigation bank are fulfilled in the event that the bank operator is unable or unwilling to do so. Over the years, several types of financial instruments have been used as a guarantee that habitat establishment will be completed, and that funds will be provided for long-term management costs. Types of financial assurances currently used include: 1) a construction security and or performance security [to establish wetland habitat on the bank site and/or maintain it until it fully meets performance criteria]; 2) an interim management security [to maintain the bank site until the bank closes]; and 3) an endowment fund [to provide funding for management (and monitoring, when specified) of the bank site in perpetuity].

The security creates an economic incentive for bank operators to meet their obligations to establish and manage the habitat. If a bank operator defaults on its obligation to establish habitat, the security provides funding for the regulatory agencies to complete the habitat work. When obligations are met, the security is dissolved or returned to the mitigation bank owner.

Bank creators are required to provide these financial assurances to ensure that the habitat establishment is successful. Although not requested specifically in Section 1851, we have included general information on the financial assurances provided for initial and interim segments of bank/ habitat construction and establishment in addition to securities ensuring perpetual management.

Information reported: The type of financial assurances used to ensure establishment, and management of the wetland mitigation bank site in perpetuity are reported for each bank.

Bank goals

Fish and Game Code Section 1851(g): "Whether goals were established for the wetland mitigation bank site and what percentage of those goals has been achieved."

Discussion: Biological/ecological goals for bank sites are not always specifically described in bank documents. Often, the goals are inferred by the descriptions of the types of habitats planned and/or target species. Some of the bank documents and reports either do not specify biological/ecological goals for bank sites or only made reference to the goal of providing compensatory wetland mitigation.

Information reported: Goals reported for each bank are the biological/ecological goals as specified in bank documents or reports or as interpreted from descriptions of planned habitats or target species. For most banks the percentage of goals achieved is reported as descriptive information interpreted from the bank's annual reports. A specific percentage is difficult to derive due to the wide variability in progress toward meeting success criteria and in the way monitoring results are reported. Descriptive information about the progress of habitat establishment is more meaningful and useful than a simple percentage value.

Wetland acres and habitat functions established

Fish and Game Code Section 1851(h): "Utilizing existing information compiled by the United States Army Corps of Engineers or other federal agencies, the number of wetland acres and habitat functions created at the bank site."

Discussion: The information reported is the number of acres of wetland established and the habitat functions established rather than just the number of acres or habitat functions created. In practice, banks establish habitat by creation, restoration, or enhancement. For more information about wetland establishment and habitat

functions see the “Description and Explanation of Habitat Functions” section of this report.

Some of the banks in the report are “preservation banks,” meaning that the bank was established to preserve wetland habitat and no new wetland habitat was established. For these banks, the number of acres of preserved wetland habitat is reported.

Information reported: The number of acres of wetland established is reported for each bank. The number of acres reported is based on either the target acreage to be established as specified in bank documents, or the acreage delineated after habitat establishment activities. Habitat functions established at each bank site are reported bank documents, reports, or as interpreted from descriptions of planned or established habitat.

Credits issued

Fish and Game Code Section 1851(i): "The number of credits issued and to whom."

Discussion: Credit allocation differs for each bank agreement, and often depends on the quality of habitat and type of restoration/creation activities that are proposed. Many banks use a 1:1 (one-to-one) acre:credit ratio, but for some banks, credit allocations have been calculated in a many acre-to-one credit format or vice versa.

Information reported: The number of credits issued, and to whom, is reported for each bank as the number of credits sold and whether the credits were sold to a private party or a government agency.

Biological productivity of created wetlands

Fish and Game Code Section 1851(j): "An assessment of the biological productivity of the created wetlands."

Discussion: More information on biological productivity is available in the “Description and Explanation of Biological Productivity” section of this report. USACE differentiates between types of “created” wetlands. This classification is based on the amount of degradation the habitat has undergone and the types of activities required to create a highly functional wetland. The information reported is for

"established" wetlands, which includes wetlands established by "creation," "restoration," or "enhancement" activities.

Information reported: Assuming the reporting requirement is aimed at determining whether the wetland habitat is successfully established, information about the overall success of the wetland habitat or progress toward habitat success is reported as "Overall Wetland Habitat Success" for each bank. The information reported is based on the general success, or progress toward success of the established wetland habitat as described in and inferred from annual monitoring reports submitted to the agencies.

Wetland acres and habitat functions lost as result of permitted projects

Fish and Game Code Section 1851(k): "Utilizing existing information that is publicly available within the records of state or federal agencies, a comparison of the wetland acreage and habitat functions that were created at the bank site and those that were lost as a result of the permitted projects for which credits were obtained."

Discussion: Please see the "Description and Explanation of Habitat Functions" section of this report for a more in-depth discussion.

Information reported: The inferred wetland functions, when possible, and actual acreage lost as a result of permitted projects is reported if the bank reported the information in their credit sales transaction reports.

Description and Explanation of Wetland Establishment

Some of the Section 1851 reporting requirements request information about habitat functions or biological productivity of "created" wetland habitat. Bank terminology and nationwide definitions under the USACOE mitigation rule distinguish between several types of wetland construction. In this report, the term "established" wetlands will be used because not all the wetland habitat in mitigation banks is created. The main goal for a wetland mitigation bank is to produce wetland habitat for which credits can be approved by the regulatory agencies and sold to projects in need of mitigation.

Wetland habitat and species credits can be produced by establishing or preserving habitat. Protecting wetland habitat already in existence on the property

before it is a bank site is considered preservation. It is simply preserved to protect and maintain its values; typically without improvements to the habitat.

Establishing habitat means undertaking specific activities to achieve self-sustaining habitat that has the physical and ecological characteristics (e.g., proper hydrology and plant and animal communities) associated with the specific type of wetland habitat targeted for establishment. The three currently practiced approaches to habitat establishment are creation, restoration, and enhancement. Creation refers to the process by which wetland habitat is created in a location that was not previously wetland habitat. Restoration refers to the re-establishment of wetland habitat which was previously destroyed or degraded and is restored to viable, functioning wetland. Enhancement refers to the process by which the ecological value of a pre-existing, but low functioning wetland is increased through specific actions such as increasing its size, developing special habitat areas in or around it, removing undesirable vegetation, connecting it to other nearby wetland habitat, etc. Each of the three approaches to wetland establishment employs various specific habitat establishment activities to varying degrees, with enhancement usually requiring the fewest activities and creation requiring the most. The specific habitat establishment activities may include but are not limited to construction, planting, exotic/invasive species control, necessary structure (i.e., fencing, signage, corrals, trails) installation, monitoring, maintenance, management, and remediation. These habitat establishment activities are carried out in accordance with: 1) bank objectives; 2) a written habitat development plan; 3) detailed design specifications; and 4) success criteria approved in conjunction with the bank agreement. Construction activities may include landscape excavation (i.e., vernal pool creation) and grading in a location that has the proper soil types to produce the slopes and water depths needed to establish the proper hydrology and vegetation. Once the construction and other necessary habitat establishment activities are completed, the site is monitored for several years to determine the success of wetland habitat establishment, and whether remediation measures will be necessary to bring the wetland into compliance with bank agreements, or state and federal standards.

Success criteria are a set of standards used to evaluate the development and successful establishment of created, restored, or enhanced wetland habitat and to

evaluate whether the quality of preserved wetland habitat persists. The success criteria and the frequency of monitoring are negotiated by the IRT under guidance of Section 404 of the Clean Water Act and are stated in the bank agreement or supporting document. If established habitat does not develop as planned, or preserved habitat declines, remediation activities may need to be implemented. Once final success criteria are fully met, the habitat is considered successfully established.

Description and Explanation of Habitat Functions

Wetland functions are the normal or characteristic activities that take place in wetland ecosystems. Wetlands perform a variety of functions as a result of their physical, chemical, and biological characteristics.

The reporting requirements in Section 1851 do not define or provide guidance on how to report habitat functions. The habitat function terms used in the bank summaries (Appendix A) are derived from concepts in functional wetland assessment approaches developed by the USEPA⁵ and USACOE⁶ which describe a set of functions that can be measured for wetlands. These include:

1. Transportation and Storage of Water
 - a. Short-term surface water storage is the temporary storage of surface water for short periods. This process replenishes soil moisture, and helps maintain and improve surface water quality.
 - b. Long-term surface water storage is the persistence of surface water for a duration of time that allows for infiltration to groundwater.
 - c. Flood energy dissipation is the reduction of energy in moving water. This process reduces peak flood flows and amount of particulates carried and improves surface water quality.

⁵ U.S. EPA, Wetlands Division. Wetlands Functions and Values. In: Watershed Ecology Modules. Watershed Academy Web, Internet Online Training in Watershed Management, available on the U.S. EPA website at <http://www.epa.gov/watertrain>

⁶ Smith, R. D., Ammann, A., Bartoldus, C., and Brinson, M. M. 1995. An approach for assessing wetland functions using hydrogeomorphic classification, reference wetlands, and functional indices. Technical Report WRP-DE-9. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. 88 p.

- d. High water table maintenance is a process that maintains groundwater storage, seasonal stream flows and water temperatures in streams.
2. Cycling and Transformation
- a. Nutrient cycling is the conversion of elements from one form to another through abiotic and biotic processes. This process helps to maintain or improve surface water quality.
 - b. Retention of inorganic sediments reduces sediment and inorganic substances in surface water and improves water quality.
 - c. Retention/removal of imported elements improves water quality through the removal of nutrients, contaminants or other elements and compounds through burial, incorporation into biomass, or biochemical reactions.
3. Natural Community Establishment and Succession
- a. Vegetation
The maintenance of native plant communities that are characteristic with respect to species composition, abundance, and age structure provides proper conditions for wetland plant survival, reproduction, and diversity.
 - b. Fish and Wildlife
The maintenance of animal communities that are characteristic with respect to species composition, abundance, and age structure helps to maintain corridors between habitat islands and landscape/regional biodiversity.

Description and Explanation of Biological Productivity

Biological productivity, depending on context, may refer to the gross primary production of plant species in a given area, the use of primary producers by secondary consumers, or the net sum of both processes. Section 1851 does not provide guidance, nor specify what criteria would meet the “biological productivity of created wetlands” reporting requirement.

Previous editions of this report have proposed using the alternative “overall success of wetland habitats” which is based on each bank’s defined wetland creation performance success criteria, and the reported progress of each bank towards these set goals. This report does not deviate from the previously used terminology, and maintains “overall success of wetland habitat” (or progress towards success) as an observable, quantifiable, and reasonable replacement for biological production.

III. DATA COLLECTION

Fish and Game Code Sections 1851 set the criteria for including a wetland mitigation bank in this report:

- 1) the bank is existing/in operation (i.e., the bank has a fully approved bank agreement and is approved to sell credits), and
- 2) the bank sells credits to the public in California.

Banks that met the criteria but are no longer in operation because all credits have been sold continue to be included in the report as examples of successful banks. They have progressed from establishment, through operation and credit sales, to closure, and long term management.

Data for all known existing wetland mitigation banks in California which meet the criteria are targeted for collection. This report contains cumulative information and updated information for the period July 2007 to June 2009. The data were collected from CDFG approved bank agreements and bank documents such as bank management plans and annual reports. Bank agreements typically contain information about bank creators, bank operators, bank creation dates, bank service areas, and types of financial assurances. Bank management plans, in some cases, provided information on bank goals and pre-bank habitat functions. Annual reports, in many cases, provided information about the numbers of wetland acres and habitat functions created at the bank, and the number of credits issued.

CDFG was unable to obtain all required bank information from other regulatory agencies. Some information was not readily available. As a result some information is repeated from the previous report. The Department is continuing its effort to obtain data and information that was not available at the time this report was produced.

Additionally, CDFG is not a participating agency to all wetland mitigation bank agreements in California, making it difficult to obtain any information about them. (CDFG currently lacks the staff and resources necessary to gather information about banks to which it is not a signatory agency; therefore, such banks are not included in this report). For information on banks in California to which CDFG is not signatory, please visit the USACOE's Regional Internet Bank Information Tracking System (RIBITS) website at <http://216.88.232.125:443/pbs/htmldb/f?p=101>.

Obtaining data for the “wetland habitat functions” and “wetland functions lost to impacts” reporting requirements was particularly difficult. Section 1851 directs CDFG to report wetland mitigation bank information that is much more specific than what the State and federal banking policies require the bank operators report. The State and federal banking policies were published in 1995, five years before Section 1851 became effective. The banking policies are general in their specifications for reporting, and neither policy specifies that wetland mitigation bank operators should report detailed wetland information such as descriptions of habitat functions prior to bank establishment (pre-bank habitat functions on site), habitat functions created at the bank (wetland acres and habitat functions established), wetland acreage and habitat functions lost (wetland acres and habitat functions lost as result of permitted projects), or assessment of wetland biological productivity (biological productivity of created_wetlands). As a result, the types and amount of information on these aspects of banks are somewhat limited in availability for inclusion in this report. While some banks may report some information about habitat functions at the bank site, there are no banks that report on biological productivity. As described in the previous section, a description of overall success of the wetland habitat is being reported in place of “biological productivity” due to difficulties with the biological productivity reporting requirement (see the section, “Description and Explanation of Biological Productivity”). As future banks are developed and approved, provisions can be made for getting assistance from the banks in compiling the needed information about habitat functions at bank sites.

Information for the reporting requirement, “wetland acres and habitat functions lost as result of permitted projects,” is not readily available. Specific information about project impacts is not routinely submitted to the regulatory agencies. Currently the

resources to actively search, obtain, and report on the necessary documents and permit information is not available. The project impact information must be obtained from the permitting authority (agency) that approves the mitigation for the project. CDFG is continuing its efforts to obtain the needed information from other regulatory agencies.

IV. CONCLUSION

Few generalizations can be made about wetland mitigation banks. For numerous reasons, there is great variability in all aspects of the banks in this report, making it difficult to make any specific, direct comparisons. The banks in this report are in various stages of implementation from the earliest operational stage (bank agreement approved and nearly ready to begin habitat establishment) to the last operational stage (credit sales completed and long-term management started). Table 4 provides a general summary and comparison of the banks. This year, appendixes B and C, which list conservation banks with and without wetland components (i.e., vernal pools) have been included to aid in comparison of the entire banking program statewide.

To summarize the banks covered in this report, including those listed in Appendix B:

- Wetland mitigation banks are located in 9 of California's 52 counties
- Conservation banks are located in 14 of California's 52 counties
- 30 mitigation and conservation banks sell or have sold wetland credits;
- 23 are non-wetland conservation banks
- 42 are privately owned/operated, and
- 11 are government owned/operated
- Overall size of the mitigation bank sites ranges from 12 acres to 1814.83 acres;
- the range of wetland acreage established is 4.3 to 312.97 acres;

Table 3. Distribution of Mitigation and Conservation Banks by County

County	Number of Wetland Mitigation Banks	Number of Conservation Banks
Alameda		5
Colusa		1
Contra Costa		2
Kern		3
Lassen	1	
Marin	1	
Merced		1
Orange		1
Placer	1	1
Riverside	1	
Sacramento	3	2
San Bernardino		1
San Diego	3	7
San Luis Obispo		1
Shasta	2	
Solano	2	1
Sonoma	9	3
Yolo		1
	23	30

Appendix A provides a brief overview of each wetland mitigation bank. The information for each bank is organized in four general sections: Contact Information; Bank Information; Biological Information; and Operational Information.

Data Management and Information Distribution

Fish and Game Code, Section 1850 requires CDFG to establish and maintain a database of all existing and operating wetland mitigation banks that sell credits to the public in California and to use the California Environmental Resources Evaluation System (CERES) California Environmental Information Catalog (CEIC) to make the information available to the public. A computer database was developed using Microsoft Access software to meet the requirement in Section 1850. CDFG is currently compiling the information required under Section 1850 along with some additional information necessary for tracking bank data, projects, and mitigation. The bank database is

maintained by CDFG's Habitat Conservation Planning Branch. CDFG will provide information about the mitigation bank dataset to CERES for the CEIC.

In addition, CDFG is cooperating with the USACOE in their endeavor to establish a nationwide database of Mitigation Banks. More information on the RIBITS database is available at <http://216.83.232.125.443/pls/htmldb/f?p=101>. Updates on this project will be available in future reports and to the public via CDFG's website once the project is complete, and a release date is set by USACOE.

CDFG is also cooperating in a USFWS-driven pilot project for the tracking of conservation banks, which will include information about our seasonal wetland conservation banks. This project is in the earliest of development stages and its progress will be discussed in future reports.

CDFG continues to evaluate ways to best meet the Legislature's and the public's interest in information about banks. The Department will continue to work with bank operators and regulatory agencies to obtain the information needed to update the database, post current bank information on CDFG's website, and produce legislative reports, as required.

Additional information on CDFG's conservation and mitigation banking program is available at <http://www.dfg.ca.gov/habcon/conplan/mitbank/mitbank.html>. For questions about this report please contact the Habitat Conservation Planning Branch at (916) 653-4875.

Table 4. Overview of Wetland Mitigation Banks in California

Name of Bank	County where bank is located	Counties within the bank's service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	Wetland acreage established at the bank	# wetland credits established	# wetland credits sold	# wetland credits remaining
Barry Jones Wetland Mitigation Bank	Riverside	western portion of Riverside	3/16/1998	USACOE, USFWS, CDFG	136.34	33 preserved acres	136.0 ¹	31.2 ¹	104.80 ¹ (as of Dec 2008)
Burdell Ranch Wetland Mitigation Bank	Marin	portions of Sonoma, Napa, Marin, Solano, and Contra Costa	9/12/2001	USACOE, USEPA, USFWS, CDFG	82.7	24.1	241	121	120 (as of Jan 2008)
Carinalli Todd Road Mitigation Bank	Sonoma	portions of Sonoma	2/3/2009	USACOE, USEPA, USFWS, CDFG	66.55	13.55 created (25.88 preserved)	66.55 ¹	0	66.55 ¹ (as of 2/3/2009)
Clay Station Mitigation Bank	Sacramento	portions of Sacramento, Placer, El Dorado, Sutter, Amador, San Joaquin	7/28/1999	USACOE, USEPA, USFWS, CDFG	405	86.95	84.039	53.72	30.32 (as of Sept. 2008)
Cottonwood Creek Wetland Mitigation Bank	Shasta	portions of Shasta and Tehama	5/23/1994	USACOE, CDFG	90	22.21	23.9	23.9	Sold Out (as of Sep 2001)
Desmond Mitigation Bank	Sonoma	a portion of Sonoma County	9/14/2005	USACOE, USEPA, USFWS, CDFG	48.3	11.1	24.7	5.9	18.8 (as of Feb 2009)

Table 4. Overview of Wetland Mitigation Banks in California (continued)

Name of Bank	County where bank is located	Counties within the bank's service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	Wetland acreage established at the bank	# wetland credits established	# wetland credits sold	# wetland credits remaining
Elsie Gridley Mitigation Bank	Solano	Solano, Napa, Yolo, Sacramento. Portions of Eastern Contra Costa, Northeastern Alameda, Placer, Glenn, Colusa, Sutter, El Dorado, Amador.	3/8/2006	USACOE, USFWS, USEPA, CDFG	1814.83	27.59 (382.7 preserved)	410.29	39.23	371.06 (as of Jan 2008)
Hale Mitigation Bank	Sonoma	a portion of Sonoma	7/1/2002	USACOE, USFWS, USEPA, CDFG	75	23 (18 preserved)	17.7	15.95	1.75 (as of Mar 2007)
Hazel Mitigation Bank	Sonoma	a portion of Sonoma	5/3/2006	USACOE, USEPA, USFWS, CDFG	101	31.25	29.87	10.65	19.22 (as of Mar 2009)
Honey Lake Wetlands Mitigation Bank	Lassen	portions of Lassen, Modoc, and Plumas	3/6/2001	USACOE, USEPA, USFWS, Caltrans, CDFG	300	92	Not for Sale to the Public.		
Horn Mitigation Bank	Sonoma	a portion of Sonoma	5/17/2006	USACOE, USEPA, USFWS, CDFG	32.52	16.0	16.0	1.15	14.85 (as of Apr 2007)

Table 4. Overview of Wetland Mitigation Banks in California (continued)

Name of Bank	County where bank is located	Counties within the bank's service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	Wetland acreage established at the bank	# wetland credits established	# wetland credits sold	# wetland credits remaining
Kimball Island Mitigation Bank	Sacramento	depending on the service area, portions of Sacramento, Alameda, Contra Costa, San Joaquin, Solano, Yolo	3/31/1998	USACOE, USFWS, NMFS, CDFG	109	approximately 102.58 ²	approx. 102.58 ²	approx. 102.58 ²	Sold out (as of May 2007)
Laguna (Carinalli) Mitigation Bank	Sonoma	portions of Sonoma, Napa, Marin	5/20/2001	USACOE, USEPA, USFWS, CDFG	28	5.5	55	55	Sold out (as of Nov 2002)
North County Habitat Bank	San Diego	San Diego	5/23/2007	USACOE, USFWS, USEPA, CDFG	14.15	11.30	11.30	See appendix	0 (See appendix)
North Suisun Mitigation Bank	Solano	Colusa, Solano, Sutter, Yolo, Yuba, Placer, El Dorado, Sacramento, San Joaquin	1/30/2007	USACOE, USFWS, USEPA, CDFG	608.75	45 (126.9 preserved)	156.300	42.173	114.13 (as of April 2009)
Pilgrim Creek Mitigation Bank	San Diego	a portion of San Diego	3/16/2000	USACOE, CDFG, Caltrans, SANDAG	121	49.8	49.8	44.86	4.94 (as of Feb 2008)
Rancho Jamul Mitigation Bank	San Diego	a portion of San Diego	11/29/2000	USACOE, USEPA, USFWS, CDFG	109	56.57	56.34	36.7891	19.5509 (as of Apr 2007)
Southwest Santa Rosa Vernal Pool Preservation Bank	Sonoma	a portion of Sonoma	6/2/1997	USACOE, USEPA, USFWS, CDFG	39.4	4.3	251.24 ¹	251.50	Sold out (as of Jul 2002)

Table 4. Overview of Wetland Mitigation Banks in California (continued)

Name of Bank	County where bank is located	Counties within the bank's service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	Wetland acreage established at the bank	# wetland credits established	# wetland credits sold	# wetland credits remaining
Stillwater Plains Mitigation Bank	Shasta	Primary service area: portions of Shasta and Tehama Special status plants service area: portions of Shasta, Tehama, Butte, Yuba, Sutter	5/8/2000	USACOE, USEPA, USFWS, CDFG	834	74.008 (77.79 preserved)	152.335 (wetland and species)	71.984 (wetland and species)	80.351 (as of Aug 2009)
Van Vleck Ranch Mitigation Bank	Sacramento	Portions of Sacramento	4/3/2009	USACOE, USEPA, USFWS, CDFG	775.03	16.24 (36.68 wetland preserved)	43.34 (wetlands and wetland species)	2.245	40.225 (as of Sept. 2009)
Wikiup Mitigation Bank	Sonoma	Portions of Sonoma, Napa, and Marin	7/28/1995	USACOE, USEPA, USFWS, CDFG	11.96	6	60	60	Sold Out (as of Oct 1999)
Wildlands Mitigation Bank	Placer	Sutter and portions of Glenn, Colusa, Butte, Yuba, Nevada, Placer, El Dorado, San Joaquin, Solano, Yolo, Sacramento	10/14/1994	USACOE, USFWS, CDFG	615	312.97	See Appendix		Sold Out ⁶ (as of Jan 2008)
Wright Mitigation Bank	Sonoma	All of Sonoma	12/4/1997	USACOE, USEPA, USFWS, CDFG	173.63	0 (preservation only, 48.5 acres)	600 ¹	600 ¹	Sold Out (as of Sep 2004)

¹ Includes all possible credit types allocated to this bank.

² Includes approximate conversion of linear feet to acres. Please see appendix for true crediting.

Appendix A. Wetland Mitigation Banks in California, August 2009

Barry Jones Wetland Mitigation Bank

Contact Information:

Bank Owner:	RBV Mitigation Credits Attn: Karin T. Krogius	Bank Operator:	Center for Natural Lands Management (CNLM)
Address:	2121 E. Pacific Coast Hwy, Ste 290		215 West Ash Street
City, State, Zip:	Corona del Mar, CA 92625		Fallbrook, CA 92028
Phone Number:	(949) 640-6002		(760) 731-7790

For information about credit sales:
McCollum Associates
Michael McCollum
10196 Clover Ranch Drive
Sacramento, CA 95829-6574
(916) 688-2040
Website: www.mccollum.com/Mitbanks.htm

Bank Information:

Bank Creation Date:	3/16/1998	Total Credits Established:	136.0 (all credit types)
Total Bank Acreage:	136.0	Total Credits Sold:	31.2
		Total Credits Remaining For Sale:	104.80 (as of Dec 2008)

General location of the bank: Riverside County, approximately 35 miles south of the City of Riverside and approximately 39 miles north of the City of Escondido

Service Area Description: western boundary is the Riverside County line; northern boundary is the Riverside County line to San Timoteo Canyon Road; southern boundary is the Riverside County line to State Hwy 79; eastern boundary - no description available

Service Area Counties: western Riverside County

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Management Account (funded by the Bank Operator)

Financial Assurances for Maintenance Period: Management Account (funded by the Bank Operator)

Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USFWS, CDFG

Biological Information:

Bank Site Goals

Maintain the overall diversity of the native flora and fauna within the Skunk Hollow Preserve.

Percentage of Goals Achieved

Overall the habitat remains preserved and functioning as intended.

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Fish and wildlife Habitat
Short-term water storage

Functions Created at the Bank Site

Plant habitat
Fish and wildlife Habitat
Short-term water storage

Total Wetland Acres Established: 33.0 (preservation only)

Barry Jones Wetland Mitigation Bank (continued)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: N/A - preservation bank

Annual monitoring requirement: 30 years

Annual monitoring completed: Data not available*

Success criteria fully met: Since bank establishment, the overall habitat continues to be preserved as intended. Characteristic vegetation types and amounts remain intact, hydrological function is as expected, and desired animal species have been observed.

Current status of established wetland habitat: N/A - no habitat establishment (preservation bank).

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	3.20	Private Party	1.50
Private Party	1.30	Private Party	1.10
Private Party	1.00	Private Party	0.50
Private Party	0.70	Private Party	0.25
Private Party	0.50	Private Party	1.00
Private Party	1.52	Private Party	0.88
Private Party	1.10	Private Party	1.00
Private Party	2.30	Private Party	1.00
Private Party	1.00	Private Party	1.00
Private Party	0.50	Private Party	0.50
Private Party	1.00	Private Party	2.00
Private Party	2.00	Private Party	1.00
Private Party	0.10	Private Party	1.50
Private Party	0.75	Private Party	0.50
Private Party	0.50		
Total Credits Sold:	31.2		

Burdell Ranch Wetland Mitigation Bank

Contact Information:

Bank Owner: Mount Burdell Enterprises James McKenney	Bank Operator: Mount Burdell Enterprises Tony Georges
Address: 365 Bel Marin Keys Blvd., Ste 100	Address: P.O. Box 2039
City, State, Zip: Novato, CA 94949	City, State, Zip: Mill Valley, CA 94942
Phone Number: (415) 884-2164	Phone Number: (415) 454-4151
	Website: http://www.burdell.net/Wetland.htm

Bank Information:

Bank Creation Date: 9/12/2001	Total Credits Established: 241
Total Bank Acreage: 82.7	Total Credits Sold: 76
	Total Credits Remaining For Sale: 165 (as of Dec 2006)

General location of the bank: Northern Marin County east of Highway 101 approximately 25 miles north of San Francisco and 7 miles south of Petaluma

Service Area Description: Marin County, exclusive of any areas west or south of State Route 1; Sonoma County within the Petaluma River and Walker Creek drainages and in the Sonoma Creek drainage from approximately the Town of Sonoma south; Napa County from the City of Napa west; Solano County from the City of Vallejo (Napa River drainage only) west; and Contra Cost County bordering San Pablo Bay lying between the Carquinez and Richmond-San Rafael bridges, with an inland boundary of Interstate 80 on the east and Cutting Boulevard and Interstate 580 on the south.

Service Area Counties: portions of Sonoma, Napa, Marin, Solano, and Contra Costa

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Performance Bond
Financial Assurances for Maintenance Period: Performance Bond
Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Restore/enhance seasonal marsh, marsh riparian and native grassland/upland

Percentage of Goals Achieved

Hydrological performance has been met for 24.1 acres of constructed wetland habitat (Oct 2003).
Soils criteria have been met (Oct 2003).
Vegetation criteria were met for Year 2 (2004).

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Wildlife habitat
Short-term water storage
Maintenance of high-water table

Functions Created at the Bank Site

Plant habitat and diversity
Wildlife habitat
Short-term water storage
Maintenance of high-water table

Total Wetland Acres Established: 24.1

Burdell Ranch Wetland Mitigation Bank (continued)

Biological Information: (continued)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: December 2001 – October 2002

Annual monitoring requirement: Years 1-5 or until two consecutive years of success (all criteria)

Annual monitoring completed: 2 years

Success criteria fully met: N/A – monitoring still in progress. Hydrology met for 24.1 acres of constructed wetland in 2003. Vegetation criteria met for Year 2 (2004).

Current status of established wetland habitat: Succeeding, as of 2004. Hydrological conditions have been met, as of 2003. As of 2004, constructed wetlands had developed vegetative characteristics comparable to reference wetlands and were continuing to progress toward fully meeting the success criteria.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	2.0	Private Party	4.0
Private Party	17.0	Private Party	6.0
Private Party	12.0	Private Party	2.0
Private Party	13.0	Private Party	1.0
Private Party	4.0	Private Party	8.0
Private Party	2.0	Government	2.0
Private Party	1.0	Government	2.0
Total Credits Sold:	76.0		

Carinalli-Todd Road Mitigation Bank

Contact Information:

Bank Owner: Carinalli Nature Preserve, LLC. **Bank Operator:** Same as owner
Address: 520 Mendocino Avenue, Suite 250
City, State, Zip: Santa Rosa, CA 95401
Phone Number: (707) 578-1302

Bank Information:

Bank Creation Date: 2/3/2009	Total Bank Credits Established: 66.55
Total Bank Acreage: 66.55	Total Credits Released for Sale: 39.73 (as of April 2008)
	Total Credits Sold: 0 (as of April 2008)
	Total Credits Remaining For Sale: 39.73 (as of April 2008)

General location of the bank: 4301 Todd Road, southwest of the intersection of Todd and Llano Roads

Service Area Description: Santa Rosa Plain²

Service Area Counties: Sonoma

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: None
Financial Assurances for Maintenance Period: Contingency Security (type not specified).
Financial Assurances for Long-term management: Non-wasting endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Preservation and enhancement of existing vernal pool and seasonal wetland habitats including habitat for special status species.

Percentage of Goals Achieved

1st year monitoring still in progress

Wetland Habitat Functions:

Functions Before Bank Creation

Plant Habitat
Short term water storage

Functions Created at the Bank Site

Plant Habitat
Wildlife Habitat
Short term water storage

Total Wetland Acres Established: 13.55 acres created, 25.88 pre-existing acres preserved.

Overall Wetland Habitat Success

Progress toward meeting success criteria: Initial stages of establishment.

Habitat establishment work completed: Work in progress

Annual monitoring requirement: 5 Years

Annual monitoring completed: 1st year monitoring still in progress.

Success criteria fully met: Establishment still in progress; first year monitoring pending.

Current status of established wetland habitat: Habitat establishment in progress.

Carinalli-Todd Road Mitigation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Total Credits Sold: 0

Clay Station Mitigation Bank

Contact Information:

Bank Owner: Elliot Homes, Inc.
Address: 2930 E. Bidwell St.
City, State, Zip: Folsom, CA 95630
Phone Number: (916) 984-1300

Bank Operator: ECORP Consulting, Inc.
Bjorn Gregersen
Address: 2525 Warren Drive
City, State, Zip: Rocklin, CA 95677
Phone Number: (916) 782-9100
Website: <http://www.ecorpconsulting.com/hab.shtml>

Bank Information:

Bank Creation Date: 7/28/1999
Total Bank Acreage: 405
Phase I 168
Phase II/III 237

Total Bank Credits Established: 84.039
Phase I 37.290
Phase II/III 47.162
(as of June 2009)
Total Credits Released for Sale: 53.72 (as of Sept. 2008)
Total Credits Sold: 53.75
Total Credits Remaining For Release : 30.32 (as of Sept. 2008)

General location of the bank: southern Sacramento County, approximately 25 miles southeast of the City of Sacramento, on Clay Station Road, and adjacent to Laguna and Brown's Creeks

Service Area Description: Ecological Subsections³ 262Ag (Hardpan Terraces), M261 (Lower Foothills Metamorphic Belt), the portion of 262Ao (Camanche Terraces) north of the Mokelumne River, and with the additional limits of the Mokelumne River to the south, U.S. Interstate 5 to the west, the northern extent of the boundary of Placer County to the north, and the 1500 foot elevation to the east.

Service Area Counties: portions of Sacramento, Placer, El Dorado, Sutter, Amador, San Joaquin

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Phase I - None; Phase II, & III - Performance Bond
Financial Assurances for Maintenance Period: Phase I, II, & III - Performance Bond
Financial Assurances for Long-term management: Phase I, II, & III - Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CADFG

Biological Information:

Bank Site Goals

Create/restore/enhance vernal pools and seasonal marsh, provide habitat connectivity

Percentage of Goals Achieved

Phase I - 100%
Phase II/III: as of 2003, 49% of the established vernal pools and 33% of the established seasonal marsh habitat have met the success criteria.

Wetland Habitat Functions:

Functions Before Bank Creation

Little or no habitat function

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage

Total Wetland Acres Established: 86.95
Phase I: 38.05 (created)
Phase II/III: 48.9 (created)

Clay Station Mitigation Bank (continued)

Biological Information: (continued)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: Phase I - October 1994; Phase II/III - Aug 1999

Annual monitoring requirement: 5 years (all Phases)

Annual monitoring completed: Phase I - 5 years; additional monitoring conducted 1 year

Phase II/III - 4 years (2000, 2001, 2002, 2003, 2004)

Success criteria fully met: Phase I - 2000; Phase II/III - as of 2003, 68% of the established vernal pools and 42% of the established seasonal marshes have met all the success criteria, and the rest of the habitat has met at least half of the success criteria.

Current status of established wetland habitat: All of the seasonal marshes had floristic compositions that indicated they are functioning as wetlands. The constructed vernal pools fall within the typical range of vernal pool habitat function as compared to the reference pools which had a similar range of plant species assemblages. Surveys indicate that both the vernal pool fairy shrimp continue to persist within the constructed vernal pools and seasonal marshes, and the preserve continues to support a number of ducks, shorebirds, and raptors.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.74	Private Party	2.08
Private Party	1.88	Private Party	0.02
Private Party	23.54	Private Party	0.25
Private Party	0.04	Private Party	2.45
Private Party	1.18	Private Party	0.88
Private Party	2.20	Private Party	1.64
Private Party	0.14	Private Party	0.36
Private Party	1.47	Private Party	0.26
Private Party	1.84	Private Party	0.66
Private Party	0.02	Private Party	0.10
Private Party	6.09	Private Party	0.15
Private Party	0.21	Private Party	4.00
Private Party	0.78	Government	0.75
Total Credits Sold:	53.72		

Cottonwood Creek Wetland Mitigation Bank

Contact Information:

Bank Owner: CA Department of Fish and Game **Bank Operator:** Same as Bank Owner
Northern California - North Coast Region
Address: 601 Locust Street
City, State, Zip: Redding, CA 96001

Bank Information:

Bank Creation Date: 5/23/1994	Total Credits Established: 23.9
Total Bank Acreage: 90	Total Credits Sold: 23.9
Bank Closure Date: 9/28/2001	Total Credits Remaining For Sale: 0.0 (as of Sep 2001)

General location of the bank: Shasta County, approximately 3 miles east of the town of Cottonwood, adjacent to the Mouth of Cottonwood Creek Wildlife Area and near the confluence of Cottonwood Creek and the Sacramento River

Service Area Description: the Sacramento Valley floor within Shasta and Tehama Counties

Service Area Counties: portions of Shasta and Tehama

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: some of the funds generated from credit sales
Financial Assurances for Maintenance Period: some of the funds generated from credit sales
Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, CADFG

Biological Information:

Bank Site Goals

Restore wetlands, upland wildlife habitat; preserve valley oak habitat; maintain riparian habitat

Percentage of Goals Achieved

>80%. All but two of the created wetland habitats were meeting success criteria as of 2006 monitoring.

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Fish and wildlife habitat
Short-term water storage

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage
Long-term water storage

Total Wetland Acres Established: 22.21 (created/restored)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: 1996, 1999, 2000, 2001

Annual monitoring requirement: 5 years on each individual wetland built

Annual monitoring completed: 5 years on the first wetlands built (1997-98, 1998-99, 1999-2000, 2000-01, 2001-02). Monitoring reports for subsequently built wetlands have completed for 2002, 2003, 2004, 2005 and 2006.

Success criteria fully met: Eight of 10 constructed wetlands have met hydraulic and annual target vegetation success criteria.

Current status of established wetland habitat: Of the eight individual wetlands constructed, six have met hydrological function criteria and the annual target vegetation criteria. The other two wetlands need some adjustment of water management.

Cottonwood Creek Wetland Mitigation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

14.85

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.520	Private Party	0.930
Private Party	1.150	Private Party	0.380
Private Party	0.200	Private Party	1.080
Private Party	2.460	Private Party	0.480
Private Party	0.080	Private Party	0.028
Private Party	1.320	Private Party	0.196
Private Party	0.930	Private Party	1.910
Private Party	2.000	Private Party	0.615
Private Party	1.330	Private Party	0.106
Private Party	8.000	Government	0.186

Total Credits Sold: 23.901 (The discrepancy between created wetlands and sold credits is due to more accurate GPS mapping of constructed wetlands completed in 2001).

Desmond Mitigation Bank (continued)

Biological Information: (continued)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: October 2004

Annual monitoring requirement: 5 years and at least until specified success criteria are met

Annual monitoring completed: Year 1 (2005), year 2 (2006), year 3 (2007), year 4 (2008).

Success criteria fully met): Monitoring still in progress.

Current status of established wetland habitat: In 2005, after one wet season, remedial grading of constructed vernal pools was needed and completed. No further remedial grading is anticipated. Monitoring is still in progress. It appears that hydrologic functions have been met by year 4, however the final year 5 "Jurisdictional Wetland Determination" will be completed next monitoring year. All pools with one exception meet the year 3 criteria for total vegetation cover and all but 5 pools meet the stipulated minimum requirements for hydrophytic vegetation. All pools currently meet the minimum requirements, number and percent cover of native wetland species.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.90	Private Party	0.30
Private Party	0.15	Private Party	0.19
Private Party	0.70	Private Party	0.05
Private Party	0.90	Private Party	0.05
Private Party	0.11	Government	0.10
Private Party	0.15	Government	1.10
Private Party	0.15	Government	1.05
Total Credits Sold:	5.90		

Elsie Gridley Mitigation Bank

Contact Information:

Bank Owner: Wetland Resources, LLC..
Address: 169 Magee Ave.
City, State, Zip: Mill Valley, CA 94941
Phone Number: (415) 289-0250

Bank Operator: Same as Owner

Bank Information:

Bank Creation Date: 1/4/2006
Total Bank Acreage: 1814.83

Total Credits Established: 410.29
Total Credits Sold: 39.23
Total Credits Remaining For Sale: 371.06
(as of Jan 2008)

General location of the bank: Southeast corner of Rio Dixon Road (Hwy 113) and Brown Road.

Service Area Description:

Service Area Counties: Solano, Napa, Yolo, Sacramento, Eastern Contra Costa, Northeastern Alameda, Portions of: Placer, Glenn, Colusa, Sutter, El Dorado & Amador Counties.

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: performance security (cash)
Financial Assurances for Maintenance Period: contingency security (cash)
Financial Assurances for Long-term management: non-wasting endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Enhance the biological value of preserved and restored habitat.
Discourage invasive species proliferation.
Enhance native plant and animal diversity.
Protect, resort and enhance habitat for special status species.

Percentage of Goals Achieved

Monitoring in progress

Wetland Habitat Functions:

Functions Before Bank Creation

Short-term water storage
Plant habitat
Wildlife Habitat

Functions Created at the Bank Site

Fish and Wildlife Habitat
Plant habitat
Short-term water storage
Long-term water storage

Total Wetland Acres Established: 27.59 (382.7 preserved)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: October 18, 2007; status report pending.

Annual monitoring requirement: Annually for 5 years and then biennially until year 10, and every 10 years after that in perpetuity.

Annual monitoring completed: Year 1 (2007)

Success criteria fully met: Habitat establishment and monitoring are in progress.

Current status of established wetland habitat: Invasive species control efforts continue; primary creation activities are complete. Appropriate native and special status species have been observed.

Elsie Gridley Mitigation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	#Credits Sold:	Credits Sold To:	#Credits Sold:
Private Party	2.24	Private Party	0.13	Private Party	0.70
Private Party	2.28	Private Party	0.55	Private Party	0.83
Private Party	0.69	Private Party	0.12	Private Party	1.14
Private Party	0.22	Private Party	0.75	Private Party	0.04
Private Party	0.23	Private Party	0.10	Government	0.14
Private Party	0.41	Private Party	0.29	Government	0.02
Private Party	0.10	Private Party	0.14	Government	0.04
Private Party	0.24	Private Party	0.10	Government	0.05
Private Party	0.44	Private Party	0.10	Government	0.10
Private Party	4.90	Private Party	0.21	Government	1.35
Private Party	1.74	Private Party	0.01	Government	1.28
Private Party	0.82	Private Party	0.01	Government	0.01
Private Party	0.02	Private Party	0.49	Government	2.70
Private Party	0.10	Private Party	0.63	Government	0.47
Private Party	0.55	Private Party	0.46	Government	0.82
Private Party	0.26	Private Party	0.88	Government	0.10
Private Party	0.20	Private Party	1.00	Government	1.42
Private Party	0.55	Private Party	0.22	Government	0.18
Private Party	0.10	Private Party	1.98	Government	1.75
Private Party	0.45	Private Party	0.04	Government	0.10
Private Party	0.04	Private Party	1.12	Government	0.08
Total Credits Sold:	39.23				

Hale Mitigation Bank

Contact Information:

Bank Owner: JTD, LLC
Address: P.O. Box 14517
City, State, Zip: Santa Rosa, CA 95402
Phone Number: (707) 577-0425

Bank Operator: Same as Bank Owner

Bank Information:

Bank Creation Date: 7/1/2002
Total Bank Acreage: 75

Total Credits Established: 17.7 (wetlands only)
Total Credits Sold: 15.95
Total Credits Remaining For Sale: 1.75 (as of March 2007)

General location of the bank: 1575 Todd Road, Santa Rosa; in the north eastern quadrant of the intersection of Todd and Llano Road.

Service Area Description: the Santa Rosa Plain² north of Rohnert Park

Service Area Counties: portions of Sonoma

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Construction Security (Cash)
Financial Assurances for Maintenance Period: Contingency Security (type of payment not specified)
Financial Assurances for Long-term management: Non-wasting endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG.

Biological Information:

Bank Site Goals

Create, restore and enhance seasonal wetlands.
Create and protect habitat for species of concern.

Percentage of Goals Achieved

Monitoring In progress

Wetland Habitat Functions:

Functions Before Bank Creation

Short-term water storage
Wildlife habitat

Functions Created at the Bank Site

Short-term water storage
Plant habitat
Wildlife habitat

Total Wetland Acres Established: 23 acres created; 18 acres preserved.

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: Data not available¹

Annual monitoring Requirement: 5 years

Annual monitoring completed: Monitoring in progress

Success criteria fully met: Monitoring in progress.

Current status of established wetland habitat:

Hale Mitigation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	4.55	Private Party	3.00
Private Party	1.00	Private Party	0.20
Private Party	0.10	Private Party	1.00
Private Party	0.40	Private Party	0.10
Private Party	0.40	Private Party	0.20
Private Party	0.30	Private Party	0.10
Private Party	0.30	Private Party	0.10
Private Party	0.60	Private Party	0.45
Private Party	0.10	Private Party	0.05
Private Party	0.30	Private Party	1.10
Private Party	0.30	Private Party	0.05
Private Party	0.10	Private Party	0.65
Private Party	0.20	Government	0.30

Total Credits Sold: 15.95

Hazel Mitigation Bank

Contact Information:

Bank Owner: Hazel Mitigation Preserve, LLC **Bank Operator:** Same as Bank Owner
Address: 336 Bon Air Center, Box 232
City, State, Zip: Greenbrae, CA 94904
Phone Number: (415) 472-1086

Bank Information:

Bank Creation Date: 5/3/2006	Total Credits Established: 29.87
Total Bank Acreage: 101	Total Credits Released: 21.14
	Phase 1: 4.47
	Phase 2: 10.42
	Phase 3: 5.95
	Total Credits Sold: 10.65
	Total Credits Remaining For Sale: 10.49 (as of Mar 2009)
	(based on credits released)

General location of the bank: Sonoma County, at 4589 and 4645 Arlington Avenue, Santa Rosa, in the southwest part of the Santa Rosa Plain.

Service Area Description: the Santa Rosa Plain²

Service Area Counties: portions of Sonoma

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Performance Security (Letter of Credit)
Financial Assurances for Maintenance Period: Contingency Security (Letter of Credit)
Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

An ecologically sound preserve with a self-sustaining ecosystem.

Percentage of Goals Achieved

Seasonal wetland creation on enhancement have been completed

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Wildlife habitat
Short-term water storage
Maintenance of high-water table

Functions Created at the Bank Site

Plant habitat and diversity
Wildlife habitat
Short-term water storage
Maintenance of high-water table

Total Wetland Acres Established: 31.25

Hazel Mitigation Bank (continued)

Biological Information: (continued)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: Aug 9, 2006

Annual monitoring requirement: 5 years (and more if any remediation is done)

Annual monitoring completed: 2 years

Success criteria fully met: N/A – monitoring still in progress.

Current status of established wetland habitat: Hydrologic function is within desired ranges for the 1st year of establishment. In comparison to 2006-2007, the 2007-2008 data show a decline in species richness, however the number of wetland species remain the same. Average native species richness remains unchanged between 2007 and 2008.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.20	Private Party	1.00
Private Party	1.52	Private Party	1.00
Private Party	0.20	Private Party	1.48
Private Party	0.50	Private Party	0.05
Private Party	0.20	Private Party	0.50
Private Party	0.10	Private Party	1.00
Private Party	0.50	Private Party	0.05
Private Party	0.35	Private Party	0.35
Private Party	0.35	Private Party	0.15
Private Party	0.25	Private Party	0.50
Private Party	0.10	Private Party	0.05
Private Party	0.10	Government	0.05
Private Party	0.10		
Total Credits Sold:	10.65		

Honey Lake Wetlands Mitigation Bank

Contact Information:

Bank Owner: CA Department of Fish and Game **Bank Operator:** Same as Owner
Northern California - North Coast Region
Address: 601 Locust Street
City, State, Zip: Redding, CA 96001
Phone Number: (530) 225-2300

Bank Information:

Bank Creation Date: 3/6/2001	Total Credits Established: 75.0*
Total Bank Acreage: 300	Total Credits Sold: 11.25
	Total Credits Remaining For Sale: 63.75 (as of May 2007)

General location of the bank: Lassen County, southeast of the City of Susanville, adjacent to the west boundary of the Dakin Unit of the Honey Lake Wildlife Area

Service Area Description: the area encompassing the overlap of the Modoc Plateau Region of the Great Basin Floristic Province with the jurisdictional boundaries of the U.S. Army Corps of Engineers - Sacramento District and the Central Valley and Lahontan Regional Water Quality Control Boards

Service Area Counties: portions of Lassen, Modoc, and Plumas

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Operation/Maintenance Fund consisting of funds from DFG and Caltrans agency funds and some of the funds generated by credit sales
Financial Assurances for Maintenance Period: Operation/Maintenance Fund consisting of funds from DFG and Caltrans agency funds and some of the funds generated by credit sales
Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG, CA Department of Transportation (Caltrans)

Biological Information:

Bank Site Goals

Restore/enhance/create emergent wetlands, provide habitat for migrating waterfowl and other wetland associated flora and fauna

Percentage of Goals Achieved

Habitat establishment is in progress on 75 acres. No monitoring has been done yet because the habitat establishment work has not yet been fully completed.

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Fish and wildlife habitat
Short-term water storage
Maintenance of high-water table

Functions Created at the Bank Site

Information not available

Total Wetland Acres Established: 92 proposed created (75 acres in progress)

Honey Lake Wetlands Mitigation Bank (continued)

Biological Information: (continued)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: Data not available¹

Annual monitoring requirement: 5 years

Annual monitoring completed: Data not available¹

Success criteria met: Data not available¹

Current status of established wetland habitat: Habitat construction (75 acres) completed in 2004. Planting will be conducted in fall 2005.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

*Credits not for sale to the public. For Caltrans use only.

Total Credits Sold: 11.25

Horn Mitigation Bank

Contact Information:

Bank Owner: Horn Avenue LLC
c/o TDG Engineers
3289 Regional Parkway
Santa Rosa, CA 95403
(707) 577-0425

Bank Operator: Same as Bank Owner

Bank Information:

Bank Creation Date: 5/17/2006
Total Bank Acreage: 32.52

Total Credits Established: 16.0
Phase 1: 5.0
Phase 2: 6.5
Phase 3: 4.5
Total Credits Sold: 1.15
Total Credits Remaining For Sale: 14.85 (as of Apr 2007)

General location of the bank: Sonoma County, southeastern edge of the City of Santa Rosa, in central Sonoma County.

Service Area Description: Southern and central parts of the Santa Rosa Plain² (Cotati to Airport Blvd.) as portrayed by the Programmatic Consultation between the U.S. Fish and Wildlife Service and the U.S. Army Corps of Engineers.

Service Area Counties: a portion of Sonoma county

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Performance Security (Letter of Credit)
Financial Assurances for Maintenance Period: Contingency Security
Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Establish a wetland mitigation bank that provides a significant amount of newly constructed or restored seasonal wetlands.

Percentage of Goals Achieved

Wetland construction complete.
Hydrology functions within comparable range of naturally occurring wetlands.
Created wetlands support regionally typical wetland and native species.

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Wildlife habitat
Short-term water storage
Maintenance of high-water table

Functions Created at the Bank Site

Plant habitat and diversity
Wildlife habitat
Short-term water storage
Maintenance of high-water table

Total Wetland Acres Established:

16.0

Horn Mitigation Bank (continued)

Biological Information: (continued)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: October 2004

Annual monitoring requirement: 5 years and at least until specified success criteria are met

Annual monitoring completed: Year 3 (2007)

Success criteria fully met: Meets year 3 criteria 10/1/2007

Current status of established wetland habitat: Hydrologic functions are performing as expected. Vegetation levels have met targets for year 3 and include the target amount of native species. Anecdotal evidence exists suggesting the bank is also providing habitat for wildlife species. Monitoring continues and the final Jurisdictional Delineation is expected soon.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.10	Government	0.55
Private Party	0.50		
Total Credits Sold:	1.15		

Kimball Island Mitigation Bank

Contact Information:

Bank Owner: Wildlands, Inc.
Address: 3855 Atherton Rd.
City, State, Zip: Rocklin, CA 95765-3715
Phone Number: (916) 435-3555

Bank Operator: Same as Owner

Website: <http://www.wildlandsinc.com>

Bank Information:

Bank Creation Date: 3/31/1998
Total Bank Acreage: 109
Bank Closure Date: 1/9/2008

Total Credits Established: ~ 102.58 acres
76.55 acres Emergent Marsh
11.06 acres Riverine Aquatic Bed
34,895 linear feet Shaded Riverine Aquatic
10.46 acres (57,009 linear feet) Riparian Habitat

Total Credits Sold: ~102.58 (as of May 2007)
76.499 acres Emergent Marsh
11.07 acres Riverine Aquatic Bed
34865.89 linear feet Shaded Riverine Aquatic
10.466 acres Riparian Habitat
29.11 linear feet retired unsold
0.052 acres retired unsold

Total Credits Remaining For Sale: 0 (as of May 2007)

General location of the bank: Sacramento County, on Kimball Island which is located at the Sacramento-San Joaquin River confluence, along the south side of the Lower Sherman Island Wildlife Area and north of the City of Antioch

Service Area Description: The bank has four service areas:

- Service Area 1: the legal Delta within the boundary of the Sacramento District of the U.S. Army Corps of Engineers
- Service Area 2: the area bounded by the Sacramento River on the northwest, State Route 12 on the north, State Route 99 on the east, and the legal Delta boundary within the boundary of the Sacramento District of the U.S. Army Corps of Engineers
- Service Area 3: an area generally centered on the Delta
- Service Area 4: the Sacramento River to River Mile 200

Service Area Counties: portions of Sacramento, Alameda, Contra Costa, San Joaquin, Solano, Yolo, depending on the service area

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Performance Bond

Financial Assurances for Maintenance Period: Combination Performance Bond and Letter of Credit

Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USFWS, NOAA Fisheries, CDFG

Kimball Island Mitigation Bank (continued)

Biological Information:

Bank Site Goals

Restore fish and wildlife habitat,
provide and enhance habitat
connectivity, diversity, and structure

Percentage of Goals Achieved

Habitat development is progressing as
expected. All created habitats met or
exceeded third year performance standards.

Wetland Habitat Functions:

Functions Before Bank Creation

Little or no habitat function
Short-term water storage

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage

Total Wetland Acres Established (restored):

80.7 acres emergent marsh
10.64 acres riparian willow scrub
35,706 linear feet and 6.56 acres shaded riverine aquatic
11.67 acres riverine aquatic bed

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: 2000

Annual monitoring requirement: 5 years

Annual monitoring completed: 5 years (2001, 2002, 2003, 2004, 2005)

Success criteria fully met: June 2006

Current status of established wetland habitat: Target vegetation types and amounts are established, and overall the habitat is developing as intended.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:

Credits Sold:

Private Party	41.891 acres Emergent Marsh
Private Party	10.850 acres Riverine Aquatic Bed
Private Party	5,010.89 linear feet Shaded Riverine Aquatic
Private Party	0.548 acres Riparian Habitat
Government	34.608 acres Emergent Marsh
Government	0.220 acres Riverine Aquatic Bed
Government	29,855 linear feet Shaded Riverine Aquatic
Government	9.918 acres Riparian Habitat

Total Credits Sold: ~102.58

Laguna (Carinalli) Mitigation Bank

Contact Information:

Bank Owner: Domenico and Lynda Carinalli
Address: 4905 Gravenstein Highway South
City, State, Zip: Sebastopol, CA 95472
Phone Number: (707) 795-7052

Bank Operator: Vernal Pool Technologies
Nathan Botwinik
Address: 475 Noonan Ranch Lane
City, State, Zip: Santa Rosa, CA 95403
Phone Number: (707) 569-9404
Website: www.wetlandservices.com/bank/html

Bank Information:

Bank Creation Date: 5/20/2001	Total Credits Established: 55.0
Total Bank Acreage: 28	Total Credits Sold: 55.0
	Total Credits Remaining For Sale: 0.0 (as of Nov 2002)

General location of the bank: Sonoma County, at 2800 Llano Road; two miles southwest of the City of Santa Rosa and adjacent to Laguna de Santa Rosa

Service Area Description: the Santa Rosa Plain²

Service Area Counties: portions of Sonoma, Napa, Marin

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Other Security Interest⁴
Financial Assurances for Maintenance Period: Other Security Interest⁴
Financial Assurances for Long-term management: Endowment Fund

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Restore/enhance vernal pools, valley oak savannah, and native grassland

Percentage of Goals Achieved

44%. Additional habitat work to be performed.

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Fish and wildlife habitat
Short-term water storage
Maintenance of high-water table

Total Wetland Acres Established:

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage
Maintenance of high-water table

5.5 (restored)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: October 2000; additional habitat work to be performed

Annual monitoring requirement: 5 years; Remediation required in 2006 which initiated new 5 year monitoring requirement.

Initial Annual monitoring completed: 5 years (2000-01, 2001-02, 2002-03, 2003-04, 2004-05)

Monitoring after remediation completed: 1 year (2007-08)

Success criteria fully met: Remediation completed 2006 new monitoring cycle begun.

Current status of established wetland habitat: 2.4 acres have been successfully established (2004). 3.1 acres were not meeting success criteria, and additional habitat work will be performed on property adjacent to the existing bank to establish a total of 5.5 acres.

Laguna (Carinalli) Mitigation Bank (continued)

Biological Information: (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

1.9

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	10.0	Private Party	4.0
Private Party	8.5	Private Party	16.0
Private Party	1.0	Private Party	5.5
Private Party	6.0	Private Party	4.0
Total Credits Sold:	55.0		

North County Habitat Bank

Contact Information:

Bank Owner: West Mark Development Corp.. **Bank Operator:** Same as Owner
Attn: John D. Lee, Esq.
Address: 3375 Pepper Lane, No. 102
City, State, Zip: Las Vegas, Nevada 89120
Fax Number: (702) 898-9538

Bank Information:

Bank Creation Date: 05/23/2007 **Total Credits Established:** 11.30
Total Bank Acreage: 11.30 **Total Credits Sold:** Accounting errors are being rectified
Total Credits Remaining For Sale: 0 Until errors are corrected.

General location of the bank: City of Carlsbad, San Diego County, south of Palomar Airport Road between Paseo del Norte and Hidden Valley Road

Service Area Description: Cities of Oceanside, Vista, San Marcos, Carlsbad, Encinitas, and western portion of northern San Diego County

Service Area Counties: Northwestern San Diego County

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: No financial assurances. All habitat enhancements and installations completed prior to any credit release.

Financial Assurances for Maintenance Period: Contingency Security held in Escrow

Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Removal of extensive exotic plant infestation (pampas grass) from Encinas Creek. Develop a wetland habitat greater in area and function than presently exists on site.

Percentage of Goals Achieved

Habitat restoration has met 5 year success criteria standards (as of 12/17/2005).

Wetland Habitat Functions:

Functions Before Bank Creation

Little wildlife habitat functions due to pampas grass infestation.
Hydrology compromised due to past Agricultural activities.

Functions Created at the Bank Site

Increased wildlife and habitat diversity.
Improved hydrology and water quality functions.

Total Wetland Acres Established: 11.30

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: 12/17/2007

Annual monitoring requirement: 5 years

Annual monitoring completed: 1st year monitoring in progress

Success criteria fully met: Monitoring in progress

Current status of established wetland habitat: First year monitoring in progress.

North County Habitat Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Mitigation credits have been sold, but recently there have arisen concerns by the IRT that there are accounting errors that need to be corrected. Once these accounting errors are rectified, a summary of credit sales will be added to this report.

North Suisun Mitigation Bank

Contact Information:

Bank Owner: Wildlands, Inc.
Address: 3855 Atherton Rd.
City, State, Zip: Rocklin, CA 95765-3715
Phone Number: (916) 435-3555

Bank Operator: Same as Owner

Website: <http://www.wildlandsinc.com>

Bank Information:

Bank Creation Date: 1/30/2007
Total Bank Acreage: 608.75

Total Credits Established: 156.300
Total Credits Sold: 43.037
Total Credits Remaining For Sale: 113.263
(as of Apr 2009)

General location of the bank: East of the City of Fairfield. The site is located between Creed Road in the north and State Route 12 in the south and is situated just west of the Denverton Road.

Service Area Description: The North Suisun Mitigation Bank vernal pool service area corresponds with the Solano-Colusa vernal pool region (Keeler-Wolfe et al. 1998) along its northern, eastern, and western boundaries. The Solano-Colusa vernal pool region extends from Glenn County just south of Hwy 162 in the north slightly into Butte and Sutter counties in its eastern edge, south through Yolo and Solano counties. The southern boundary of the service area deviates slightly from the Solano-Colusa vernal pool region boundaries, but is contained entirely within the vernal pool region.

A separate service area has been established for California Tiger Salamander credits.

Service Area Counties: Colusa, Solano, Sutter, & Yolo.

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Construction Security (Letter of Credit)
Financial Assurances for Maintenance Period: Performance and Maintenance Securities (Unspecified type)
Financial Assurances for Long-term management: Non-wasting endowment.

Signatory Agencies: USACOE, USEPA, USFWS, CDFG.

Biological Information:

Bank Site Goals

Preserve and monitor the quality of existing wetlands and create high quality vernal pool habitat.

Percentage of Goals Achieved

Monitoring in Progress

Wetland Habitat Functions:

Functions Before Bank Creation

Short-term water storage

Functions Created at the Bank Site

Establishment in progress

Total Wetland Acres Established: 45.0 acres created (126.9 acres preserved)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: In progress

Annual monitoring requirement: 5 years; the biennially until year 10. Monitoring to be completed every 5-10 years thereafter in perpetuity.

Annual monitoring completed: Monitoring still in progress

Success criteria fully met: Monitoring in progress

Current status of established wetland habitat: Monitoring in progress.

North Suisun Mitigation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	#Credits Sold:
Private Party	0.096	Private Party	2.300
Private Party	0.200	Private Party	1.000
Private Party	0.420	Private Party	0.820
Private Party	0.010	Private Party	0.061
Private Party	0.380	Government	2.900
Private Party	0.240	Government	6.650
Government	0.310	Government	0.120
Government	24.000	Government	0.060
Government	2.226	Government	0.350
Government	0.030		
Total Credits Sold:	43.037		

Pilgrim Creek Mitigation Bank

Contact Information:

Bank Owner: CA Department of Fish and Game **Bank Operator:** Same as Bank Owner
South Coast Region
Address: 4949 Viewridge Ave
City, State, Zip: San Diego, CA 92123
Phone Number: (858) 467-4201

Bank Credits are managed by SANDAG, Attn: Dean Hiatt, 401 B Street, Ste 800, San Diego,
CA 92101-4231, (619) 699-6978, <http://www.sandag.org>

Bank Information:

Bank Creation Date: 3/16/2000	Total Credits Established: 49.8
Total Bank Acreage: 121	Total Credits Sold: 44.86
	Total Credits Remaining For Sale: 4.94 (as of Feb 2008)

General location of the bank: San Diego County, in Oceanside at the intersection of Douglas Drive and Via Cibola and east of Camp Pendleton

Service Area Description: the northern half of coastal San Diego County

Service Area Counties: a portion of San Diego County

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: No formal financial assurances. Caltrans funded habitat establishment activities

Financial Assurances for Maintenance Period: No formal financial assurances. Caltrans funded habitat establishment activities

Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, CDFG, Caltrans, San Diego Association of Governments (SANDAG)

Biological Information:

Bank Site Goals

Restore freshwater marsh and willow
Scrub

Percentage of Goals Achieved

Habitat continues to develop as intended.
Desired vegetation continued to increase
in Years 2 through 6. Target species are
present.

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Short-term water storage
Nutrient cycling
Retention of inorganic sediments

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage
Retention of inorganic sediments

Pilgrim Creek Mitigation Bank (continued)

Biological Information: (continued)

Total Wetland Acres Established: 49.8 (created/enhanced)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: 1996

Annual monitoring requirement: 5 years

Annual monitoring completed: 6 years (1997-2003)

Success criteria fully met: 2004

Current status of established wetland habitat: Target vegetation types and amounts have become established, desired animal species have been observed, and overall the habitat continues to develop as intended.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

13

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.25	Private Party	0.30
Private Party	0.69	Private Party	0.66
Private Party	0.22	Private Party	0.82
Private Party	0.50	Private Party	0.65
Private Party	0.56	Government	1.19
Private Party	1.80	Government	0.04
Private Party	0.31	Government	27.80
Private Party	0.15	Government	1.20
Private Party	0.22	Government	1.60
Private Party	0.16	Government	1.41
Private Party	0.10	Government	1.00
Private Party	0.40	Government	0.90
Private Party	0.34	Government	0.85
Private Party	0.04	Government	0.48
Private Party	0.22		
Total Credits Sold:	44.86		

Rancho Jamul Mitigation Bank

Contact Information:

Bank Owner: CA Dept. of Fish and Game
Address: 4949 Viewridge Ave..
City, State, Zip: San Diego, CA 92123
Phone Number: (858) 467-4201

Bank Operator: Wildlands Inc.
3855 Atherton Road
Rocklin, CA 95765
(916) 435-3555

Website: www.wildlandsinc.com

Bank Information:

Bank Creation Date: 11/29/2000
Total Bank Acreage: 109

Total Credits Established: 56.34

Phase 1A 47.76

Phase 1B 8.58

Total Credits Sold: 36.7891

Phase 1A 31.668

Phase 1B 5.121

Total Credits Remaining For Sale: 19.5509 (as of Apr 2007)

Phase 1A 16.092

Phase 1B 3.459

General location of the bank: San Diego County, along Dulzura and Jamul Creeks on the Rancho Jamul Property bordering and south of Highway 94 and its junction with Otay Lakes Road

Service Area Description:

Primary Service Area: The area draining into San Diego Bay, including the Otay River, Sweetwater River, and Chollas Creek watersheds, for all in-kind mitigation of impacts to wetlands/waters of the U.S.
Secondary Service Area: The area draining into Mission Bay, including the San Diego River, Rose Creek, San Clemente Creek, and Tecolote Creek watersheds, for all in-kind mitigation in excess of 1:1 replacement for freshwater wetland, intermittent waters, and temporary impacts, or 2:1 replacement for jurisdictional riparian habitat.

Service Area Counties: a portion of San Diego County

Financial Assurance Type:

Financial Assurances for Wetlands Establishment ("Construction"): Performance Bond

Financial Assurances for Maintenance Period ("Habitat Establishment"): Contingency Security

Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Restore/enhance floodplain, riparian habitat connectivity; increase species diversity; assist in Least Bell's vireo recovery.

Percentage of Goals Achieved

Phase 1A: Met Year 3 success criteria for cover and Year 5 success criteria for species diversity

Phase 1B: Met success criteria for Year 3 and is expected to meet success criteria for Year 5.

Wetland Habitat Functions:

Functions Before Bank Creation

Little to no wildlife habitat function
Diverted and incised channel

Functions Created at the Bank Site

Plant habitat and diversity
Wildlife habitat
Short-term water storage
Maintenance of high-water table

Rancho Jamul Mitigation Bank (continued)

Biological Information: (continued)

Total Wetland Acres Established (enhanced/restored):

Phase 1A - 46.47 acres:

depressional wetland 4.70

riparian wetland 25.70

non-wetland waters/unvegetated streambed 0.85

enhancement of existing riparian wetland 8.02

oak riparian forest/sycamore woodland 7.20

Phase 1B – 10.1 acres:

depressional wetland 1.30

riparian wetland 8.80

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: Phase 1A - Feb. 2001
Phase 1B - Jan. 2003

Annual monitoring requirement: 1-5 years for each phase

Annual monitoring completed: years for Phase 1A; 4 years for Phase 1B

Success criteria fully met:

Phase 1A: Monitoring results show Phase 1A meeting success criteria for Year 3 success criteria for cover and Year 5 success criteria for species diversity

Phase 1B: Monitoring results show Phase 1B meeting success criteria for Year 3 and is expected to meet success criteria for Year 5.

Current status of established wetland habitat: The established wetland habitat continues to develop and function as intended. Habitat enhancement activities (exotic vegetation removal) continue to be successful. Much of the riparian habitat burned in the October 2007 wildfire, but the habitat is currently recovering.

Rancho Jamul Mitigation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	#Credits Sold:
Private Party	0.2500	Private Party	0.0200
Private Party	0.3420	Private Party	0.1000
Private Party	0.1500	Private Party	0.4200
Private Party	0.1400	Private Party	0.6200
Private Party	0.0600	Private Party	0.1000
Private Party	4.8600	Private Party	0.2800
Private Party	0.1000	Private Party	0.8280
Private Party	0.6800	Private Party	0.0680
Private Party	0.7020	Private Party	0.3300
Private Party	0.1300	Private Party	0.8600
Private Party	0.4500	Private Party	0.1100
Private Party	0.0070	Private Party	0.2500
Private Party	0.0900	Private Party	0.0120
Private Party	0.5100	Private Party	0.0600
Private Party	0.0600	Private Party	0.2600
Private Party	0.3760	Private Party	0.0450
Private Party	0.0400	Private Party	0.0800
Private Party	0.2000	Private Party	0.2400
Private Party	0.1200	Private Party	0.0700
Private Party	0.0500	Private Party	0.4000
Private Party	0.1000	Private Party	1.8400
Private Party	0.3400	Private Party	0.0600
Private Party	0.1000	Government	2.2100
Government	15.9000	Government	0.0400
Government	0.9000	Government	0.0600
Government	0.6300	Government	0.0800
Government	0.0131	Government	0.0300
Government	0.0160		
Total Credits Sold:	36.7891		

Southwest Santa Rosa Vernal Pool Preservation Bank

Contact Information:

Bank Owner: California Department of
Fish & Game.
Central Coast Region
Address: P. O. Box 47
City, State, Zip: Yountville, CA 94599
Phone Number: (707) 944-5500

Bank Information:

Bank Creation Date: 6/2/1997	Total Credits Established: 251.24
Total Bank Acreage: 39.4	Total Credits Sold: 251.50
Bank Closed: 12/27/2002	Total Credits Remaining For Sale: 0 (as of Jul 2002)

General location of the bank: Sonoma County, at 1187 Todd Road, Santa Rosa; southwest of the City of Santa Rosa, approximately 2 miles from existing city limits

Service Area Description: Sonoma County

Service Area Counties: Sonoma

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Not specified in the Agreement
Financial Assurances for Maintenance Period: Not Specified in the Agreement
Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Preserve vernal pools and endangered species populations

Percentage of Goals Achieved

Hydrology and vegetation performance criteria have been met for Year 4 (2003).

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Fish and wildlife habitat
Short-term water storage

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage

Total Wetland Acres Established: 4.3 (restored)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: 1999

Annual monitoring requirement: 5 years

Annual monitoring completed: 5 years

Success criteria fully met: Data not available¹

Current status of established wetland habitat: The bank was officially closed in December 2002. After credits were sold, Fee Title was transferred to the California Department of Fish and Game. CDFG continues to manage the bank.

Hydrology and vegetation criteria met for Year 4 (2003). Constructed vernal pool habitat is developing as expected and is performing/functioning comparable to the reference vernal pools.

Southwest Santa Rosa Vernal Pool Preservation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	1.5	Private Party	2.0	Private Party	2.0
Private Party	24.0	Private Party	4.0	Private Party	13.5
Private Party	42.0	Private Party	2.5	Private Party	1.0
Private Party	15.0	Private Party	1.0	Private Party	4.0
Private Party	4.0	Private Party	2.5	Private Party	6.0
Private Party	2.5	Private Party	10.0	Private Party	4.0
Private Party	1.0	Private Party	4.5	Private Party	3.0
Private Party	2.0	Private Party	1.0	Private Party	25.0
Private Party	0.5	Private Party	8.5	Private Party	2.0
Private Party	2.0	Private Party	1.0	Private Party	29.0
Private Party	2.0	Private Party	7.0	Private Party	15.0
Private Party	1.0	Government	1.0	Government	3.5
Government	1.0				
Total Credits Sold:	251.5				

Stillwater Plains Mitigation Bank

Contact Information:

Bank Owner: Stillwater Plains Mitigation Bank, Inc. **Bank Operator:** Same as Owner
Address: 21923 Dersch Rd. P.O. Box 52
City, State, Zip: Anderson, CA 96007 Palo Cedro, CA 96073
Phone Number: (530) 365-4233

Bank Information:

Bank Creation Date: 5/8/2000	Total Credits Established:	152.335
Total Bank Acreage: 834	Phase I 65.024	
	Phase II & III 87.311	
	Total Credits Released	140.611
	Phase I 65.024	
	Phase II & III 75.587	
	Total Credits Sold:	71.984
	Phase I 36.95	
	Phase II & III 35.034	
	Total Credits Remaining For Sale:	80.351
		(as of Aug. 31, 2008)

General location of the bank: Shasta County, south of State Hwy 44 between Deschutes Road and Stillwater Creek, approximately 2 miles southeast of the City of Redding

Service Area Description: The bank has two service areas:

- The primary service area is bounded on the north by the southern edge of the Shasta-Trinity National Recreation Area (Shasta Reservoir), on the south by State Highway 36, on the east by Mineral Road and the western edge of Latour State Forest, and on the west by the eastern edge of the Shasta-Trinity National Recreation Area (Whiskeytown Reservoir), Mule Town Road, and Plantina Road.
- For special-status plant species known to occur on the Bank Site (*Orcuttia tenuis*, *Legenere limosa*, *Gratiola heterosepala*, and *Juncus leiospermus* var. *leiospermus*), those portions of Shasta, Tehama, Butte, Yuba, and Sutter counties within the Northeast Sacramento Valley Vernal Pool Region as identified in the CDFG Vernal Pool Assessment (Keeler-Wolf, et al, 1998⁵).

Service Area Counties: Primary service area: portions of Shasta and Tehama; Special-status plant species service area: portions of Shasta, Tehama, Butte, Yuba, Sutter

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Performance Bond
Financial Assurances for Maintenance Period: Performance Bond
Financial Assurances for Long-term management: Endowment

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Preserve existing vernal pools.
Establish additional vernal pool habitat.

Percentage of Goals Achieved

Constructed wetlands of Phases I, II, and III have met their success criteria to date.

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Fish and wildlife habitat
Short-term water storage

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage

Stillwater Plains Mitigation Bank (continued)

Biological Information: (continued)

Total Wetland Acres Established: Phase I
Wetland acres established: 15.924
(Wetland acres preserved: 28.224)

Phase II & III¹
Wetland acres established:¹
(Wetland acres preserved:¹

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed (date): 2001, 2004

Annual monitoring requirement: 5 years

Annual monitoring completed: 3 years

Success criteria fully met (date): N/A - monitoring still in progress

Current status of established wetland habitat: Overall the constructed wetlands are doing well. Target vegetation types and amounts are established or are becoming established, desired animal species have been observed, and overall the habitat is developing as intended.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Accounting errors are being corrected.

Total Credits Sold: 71.984

Van Vleck Ranch Mitigation Bank

Contact Information:

Bank Owner: Van Vleck Ranch and Resources Corporation
Address: 7879 Van Vleck Road
City, State, Zip: Rancho Murrieta, CA 95683
Phone Number: (916) 341-0808

Bank Operator: Westervelt Ecological Services
600 North Market Blvd, Suite 3
Sacramento, CA 95616
(916) 646-3644
Website: www.westerveltecologicalservices.com

Bank Information:

Bank Creation Date: 4/3/2009
Total Bank Acreage: 775.03

Total Credits Established: 43.34
Credits Released for Sale: 6.51
Total Credits Sold: 2.245
Total Credits Remaining For Sale: 4.265 (as of Sept. 2009)
(Based on Credits Released)

General location of the bank: An unincorporated portion of eastern Sacramento County south of the community of Rancho Murieta. Access is off Lone Road. The nearest major cross street is Hwy 16.

Service Area Description: Encompasses the southern half of the aforementioned vernal pool region, from Sacramento River east to Hwy 49, and from Hwy 26 to the northern border of Sacramento County.

Service Area Counties: Portions of Sacramento, Amador, San Joaquin, El Dorado, Placer, Sutter, Nevada and Yuba.

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Construction Security (Letter of Credit)
Financial Assurances for Maintenance Period: Performance Security (Letter of Credit)
Financial Assurances for Long-term management: Non-wasting endowment.

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

To compensate for unavoidable impacts to, and to conserve and to protect wetlands waters of the U.S., covered species and covered habitat.

Percentage of Goals Achieved

Establishment in Progress

Wetland Habitat Functions:

Functions Before Bank Creation

Short-term water storage
Plant Habitat
Wildlife habitat

Functions Created at the Bank Site

Short-term water storage
Plant habitat
Wildlife habitat

Total Wetland Acres Established: 16.24 to be created.

Van Vleck Ranch Mitigation Bank (continued)

Biological Information: (continued)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: Wetland creation in progress

Annual monitoring requirement: 5 years, with reports at years 2, 3, 4, 5 and every 5 years in perpetuity.

Annual monitoring completed: 1st year monitoring in progress

Current status of established wetland habitat: Wetland establishment and 1st year monitoring in progress.

Success criteria met: Wetland creation in progress.

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.87	Government	1.218
Total Credits Sold: 2.245			

Wikiup Mitigation Bank

Contact Information:

Bank Owner: California Department of
Fish & Game
Central Coast Region
Address: P.O. Box 47
City, State, Zip: Yountville, CA 94599
Phone Number: (707) 944-5500

Previous Bank Operator:
Wikiup Builders, LP
Ilan Silberstein
987 Airway Court, Ste 44
Santa Rosa, CA 95403
(707) 571-7659

Bank Information:

Bank Creation Date: 7/28/1995	Total Credits Established: 60.0
Total Bank Acreage: 12	Total Credits Sold: 60.0
Bank Closure Date: 4/13/2000	Total Credits Remaining For Sale: 0.0 (as of Oct 1999)

General location of the bank: Sonoma County, in the Larkfield-Wikiup area just east of U.S. Highway 101 between the Town of Windsor and the City of Santa Rosa

Service Area Description: the Santa Rosa Plain²

Service Area Counties: portions of Sonoma, Napa, and Marin

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Cash
Financial Assurances for Maintenance Period: Trust Account
Financial Assurances for Long-term management: Endowment Fund

Signatory Agencies: USACOE, USEPA, USFWS, CDFG

Biological Information:

Bank Site Goals

Provide a habitat that resembles the natural Santa Rosa Plain and provides habitat for native amphibians, water associated birds and aquatic invertebrates.

Percentage of Goals Achieved

100%. Success criteria met in fourth year after habitat establishment work was completed.

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Fish and wildlife habitat

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage
Nutrient cycling

Total Wetland Acres Established: 6.0 (created)

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: September 1995

Annual monitoring requirement: 5 years

Annual monitoring completed: 5 years

Current status of established wetland habitat: wetland performing/functioning like a regionally typical seasonal wetland

Success criteria met: approx. September 2000

Wikiup Mitigation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	3.0	Private Party	6.5
Private Party	1.0	Private Party	5.5
Private Party.	4.0	Private Party	3.5
Private Party	1.5	Private Party	1.0
Private Party	1.5	Private Party	2.0
Private Party	1.5	Private Party	1.5
Private Party	3.5	Private Party	1.0
Private Party	4.0	Private Party	2.5
Private Party	13.5	Private Party	0.5
Private Party	1.0	Private Party	1.0
Private Party	0.5		
Total Credits Sold:	60.0		

Wildlands Mitigation Bank

Contact Information:

Bank Owner: Sheridan Mitigation Corp.
Address: 6935 South Forbes Rd.
City, State, Zip: Lincoln, CA 95648
Phone Number: (916) 408-2290

Bank Operator: Wildlands, Inc.
Address: 3855 Atherton Rd
City, State, Zip: Rocklin, CA 95765-3715
Phone Number: (916) 435-3555
Website: <http://www.wildlandsinc.com>

Bank Information:

Bank Creation Date: 10/14/1994
Total Bank Acreage: 615
Phase I 78
Phase II 119
Phase III 118
Phase IV 300

Total Bank Established: 334.069
Total Credits Sold: 299.961⁶
Total Credits Remaining For Sale: 34.108
(as of Dec 2007)

General location of the bank: Placer County, west of State Route 65, approximately one mile northwest of the town of Sheridan

Service Area Description: basically a 40-mile radius around the bank site, with a few areas extending beyond the 40-mile radius: northward to five miles north of Chico, west to three miles west of Interstate 5, and east to approximately 1000-foot elevation and excluding Butte County meadowfoam vernal pool complexes; southward to south of State Route 12, west to Interstate 5, and east to the Amador County line; westward, three miles on each side of Interstate 80 to its junction with Interstate 680.

Service Area Counties: Sutter and portions of Glenn, Colusa, Butte, Yuba, Nevada, Placer, El Dorado, San Joaquin, Solano, Yolo, Sacramento

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: Phase I-III - Performance Bond & Letter of Credit;
Phase IV - Letter of Credit

Financial Assurances for Maintenance Period: Phase I-III - Not Specified in the Agreement,
Phase IV - Letter of Credit

Financial Assurances for Long-term management: Phase I-IV - Endowment

Signatory Agencies: USACOE, USFWS, CDFG

Biological Information:

Bank Site Goals

Establish wetland and riparian habitat types in the area and restore native vegetation to the upland buffer areas.

Percentage of Goals Achieved

100% for Phase I - III
Phase IV, Year 3 monitoring:
Vernal pools have met vegetation performance standards. Seasonal and perennial marsh habitats have met or exceeded performance standards. Riparian habitat is meeting performance standards overall.

Wildlands Mitigation Bank (continued)

Biological Information: (continued)

Wetland Habitat Functions:

Functions Before Bank Creation

Little or no habitat function

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage

Total Wetland Acres Established: 312.97

Phase I 59.70

Phase II 84.81

Phase III 51.32

Phase IV 117.14

Overall Wetland Habitat Success

Progress toward meeting success criteria:

Habitat establishment work completed: Phase I - July 1995
Phase II - 1998
Phase III - 1998
Phase IV - 2002

Annual monitoring requirement: 5 years (all Phases)

Annual monitoring completed: Phase I - 5 years
Phase II - 5 years
Phase III - 5 years
Phase IV - 3 years

Success criteria fully met: Phase I - 2001
Phase II - 2002
Phase III - 2003 (all but 3.684 acres)
Phase IV - N/A, monitoring still in progress

Current status of established wetland habitat:

Phases I, II - The established wetland habitat continues to persist and function as intended.

Phase III - Success criteria fully met in 2003 on all but 3.684 acres. Remediation work is being conducted as part of the Phase IV habitat establishment work.

Phase IV - Target vegetation types and amounts are established or are becoming established, and overall the habitat is developing as intended.

Wildlands Mitigation Bank (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.110	Private Party	0.002	Private Party	1.830
Private Party	8.060	Private Party	0.013	Private Party	3.230
Private Party	0.020	Private Party	0.230	Private Party	0.010
Private Party	0.040	Private Party	0.520	Private Party	0.711
Private Party	0.500	Private Party	3.490	Private Party	0.330
Private Party	0.490	Private Party	0.118	Private Party	0.080
Private Party	1.680	Private Party	0.147	Private Party	1.150
Private Party	0.300	Private Party	0.370	Private Party	0.980
Private Party	0.100	Private Party	0.290	Private Party	0.390
Private Party	0.150	Private Party	0.350	Private Party	0.990
Private Party	0.210	Private Party	0.090	Private Party	0.104
Private Party	0.140	Private Party	0.184	Private Party	0.040
Private Party	1.000	Private Party	2.900	Private Party	0.140
Private Party	0.250	Private Party	2.511	Private Party	1.840
Private Party	1.290	Private Party	3.140	Private Party	0.120
Private Party	0.820	Private Party	0.220	Private Party	0.340
Private Party	0.140	Private Party	0.100	Private Party	0.560
Private Party	0.006	Private Party	0.100	Private Party	0.100
Private Party	0.080	Private Party	0.023	Private Party	0.040
Private Party	0.370	Private Party	0.028	Private Party	2.410
Private Party	0.030	Private Party	0.032	Private Party	0.090
Private Party	0.300	Private Party	0.340	Private Party	0.470
Private Party	0.020	Private Party	0.140	Private Party	4.150
Private Party	0.020	Private Party	0.290	Private Party	0.004
Private Party	1.850	Private Party	1.590	Private Party	0.130
Private Party	0.690	Private Party	0.420	Private Party	0.312
Private Party	0.060	Private Party	0.020	Private Party	0.342
Private Party	0.188	Private Party	0.020	Private Party	0.320
Private Party	0.040	Private Party	0.020	Private Party	0.060
Private Party	0.090	Private Party	0.039	Private Party	0.060
Private Party	4.000	Private Party	0.080	Private Party	0.030
Private Party	0.290	Private Party	0.799	Private Party	0.360
Private Party	1.280	Private Party	0.219	Private Party	0.090

(continued)

Wildlands Mitigation Bank (continued)

Operational Information (continued):

Credit Sales Summary (continued):

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.060	Private Party	0.170	Private Party	0.570
Private Party	0.490	Private Party	0.140	Private Party	0.280
Private Party	0.060	Private Party	0.095	Private Party	0.290
Private Party	0.040	Private Party	0.200	Private Party	0.130
Private Party	0.270	Private Party	0.598	Private Party	0.060
Private Party	0.590	Private Party	0.010	Private Party	0.020
Private Party	0.330	Private Party	0.100	Private Party	0.600
Private Party	0.040	Private Party	0.310	Private Party	0.230
Private Party	0.210	Private Party	2.560	Private Party	0.320
Private Party	0.470	Private Party	0.190	Private Party	0.010
Private Party	1.140	Private Party	0.155	Private Party	2.670
Private Party	0.510	Private Party	0.340	Private Party	3.700
Private Party	1.201	Private Party	0.090	Private Party	0.020
Private Party	0.333	Private Party	0.050	Private Party	0.280
Private Party	2.340	Private Party	0.400	Private Party	0.020
Private Party	0.080	Private Party	5.830	Private Party	0.500
Private Party	0.120	Private Party	0.158	Private Party	0.064
Private Party	0.700	Private Party	0.032	Private Party	0.130
Private Party	0.940	Private Party	0.300	Private Party	0.297
Private Party	0.140	Private Party	0.800	Private Party	0.006
Private Party	0.140	Private Party	0.050	Private Party	0.030
Private Party	1.190	Private Party	0.200	Private Party	0.030
Private Party	0.310	Private Party	0.003	Private Party	0.410
Private Party	0.290	Private Party	4.200	Private Party	0.060
Private Party	0.130	Private Party	3.130	Private Party	2.970
Private Party	0.360	Private Party	0.071	Private Party	0.070
Private Party	0.100	Private Party	0.140	Private Party	0.022
Private Party	0.050	Private Party	0.195	Private Party	0.087
Private Party	0.010	Private Party	0.240	Private Party	0.310
Private Party	0.040	Private Party	0.250	Private Party	0.140
Private Party	1.000	Private Party	0.070	Private Party	0.088
Private Party	0.080	Private Party	0.270	Private Party	0.180
Private Party	0.020	Private Party	0.020	Private Party	0.060
Private Party	0.570	Private Party	0.020	Private Party	0.260
Private Party	0.280	Private Party	0.100	Private Party	0.070
Private Party	0.060	Private Party	0.230	Private Party	0.080

(continued)

Wildlands Mitigation Bank (continued)

Operational Information (continued):

Credit Sales Summary (continued):

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	2.950	Private Party	2.510	Private Party	0.220
Private Party	0.050	Private Party	0.122	Private Party	1.210
Private Party	0.577	Private Party	0.046	Private Party	0.120
Private Party	0.200	Private Party	0.230	Private Party	0.050
Private Party	0.850	Private Party	0.045	Private Party	0.010
Private Party	0.180	Private Party	0.037	Private Party	0.025
Private Party	0.300	Private Party	0.040	Private Party	0.100
Private Party	0.482	Private Party	0.380	Private Party	0.190
Private Party	0.003	Private Party	0.200	Private Party	0.320
Private Party	0.010	Private Party	0.253	Private Party	0.140
Private Party	0.080	Private Party	0.160	Private Party	0.120
Private Party	0.090	Private Party	0.040	Private Party	1.180
Private Party	1.070	Private Party	0.380	Private Party	0.085
Private Party	0.110	Private Party	0.130	Private Party	0.230
Private Party	0.001	Private Party	0.030	Private Party	0.940
Private Party	1.010	Private Party	0.748	Private Party	0.150
Private Party	0.067	Private Party	0.230	Private Party	0.064
Private Party	0.150	Private Party	0.070	Private Party	0.584
Private Party	0.490	Private Party	0.380	Private Party	0.842
Private Party	0.120	Private Party	0.230	Private Party	0.470
Private Party	0.220	Private Party	0.630	Private Party	0.440
Private Party	0.379	Private Party	0.230	Private Party	1.750
Private Party	0.180	Private Party	0.350	Private Party	0.073
Private Party	0.050	Private Party	0.130	Private Party	0.270
Private Party	0.100	Private Party	0.381	Private Party	0.283
Private Party	0.022	Private Party	0.060	Private Party	0.030
Private Party	0.430	Private Party	0.100	Private Party	0.970
Private Party	0.016	Private Party	1.680	Private Party	0.450
Private Party	0.030	Private Party	0.100	Private Party	0.420
Private Party	0.040	Private Party	0.150	Private Party	1.235
Private Party	1.024	Private Party	0.170	Private Party	0.055
Private Party	0.024	Private Party	0.079	Private Party	0.036
Private Party	0.055	Private Party	0.001	Private Party	0.010
Private Party	0.030	Private Party	0.010	Private Party	0.269
Private Party	0.223	Private Party	0.900	Private Party	0.697
Private Party	0.080	Private Party	0.490	Private Party	0.110
Private Party	0.420	Private Party	0.200	Private Party	3.890
Private Party	0.050	Private Party	0.010	Private Party	0.343

(continued)

Wildlands Mitigation Bank (continued)

Operational Information (continued):

Credit Sales Summary (continued):

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	0.160	Private Party	0.070	Private Party	4.500
Private Party	8.980	Private Party	0.030	Private Party	0.050
Private Party	2.690	Private Party	0.044	Private Party	0.440
Private Party	0.330	Private Party	0.051	Private Party	0.010
Private Party	0.057	Private Party	2.173	Private Party	0.025
Private Party	0.060	Private Party	9.383	Private Party	3.790
Private Party	1.300	Private Party	0.075	Private Party	0.070
Private Party	0.100	Private Party	0.020	Private Party	1.500
Private Party	0.020	Private Party	0.125	Private Party	0.200
Private Party	0.220	Private Party	0.450	Private Party	0.060
Private Party	0.260	Private Party	0.180	Private Party	2.880
Private Party	0.309	Private Party	0.760	Private Party	0.380
Private Party	0.002	Private Party	0.016	Private Party	0.400
Private Party	0.060	Private Party	0.167	Private Party	0.017
Private Party	0.050	Private Party	0.450	Government	0.050
Private Party	0.150	Private Party	0.462	Government	2.990
Private Party	0.370	Private Party	0.980	Government	0.920
Private Party	0.500	Private Party	0.050	Government	2.310
Private Party	0.550	Private Party	0.013	Government	0.700
Private Party	0.780	Private Party	0.190	Government	0.150
Private Party	0.160	Private Party	0.100	Government	0.150
Private Party	0.038	Private Party	0.960	Government	0.368
Private Party	6.000	Private Party	0.290	Government	0.130
Private Party	0.094	Private Party	0.714	Government	0.150
Private Party	0.012	Private Party	5.710	Government	0.420
Private Party	0.260	Private Party	0.100	Government	2.340
Private Party	0.060	Private Party	0.050	Government	0.050
Private Party	0.930	Private Party	0.155	Government	0.150
Private Party	0.210	Private Party	0.018	Government	0.270
Private Party	0.575	Private Party	0.100	Government	0.030
Private Party	0.320	Private Party	0.030	Government	0.020
Private Party	4.330	Private Party	0.140	Government	0.040
Private Party	0.220	Private Party	0.100	Government	0.030
Private Party	0.960	Private Party	0.423	Government	0.016
Private Party	0.100	Private Party	3.000	Government	0.150
Private Party	0.013	Private Party	0.356	Government	0.210
Private Party	0.004	Private Party	0.217	Government	0.090
Private Party	0.180	Private Party	1.360	Government	0.100
Private Party	0.220	Private Party	0.950	Government	0.130
Private Party	0.100	Private Party	0.380	Government	0.360
Private Party	0.020	Private Party	0.060	Government	0.520

Wildlands Mitigation Bank (continued)

Operational Information (continued):

Credit Sales Summary (continued):

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Government	0.420	Government	1.510	Government	0.550
Government	0.530	Government	0.080	Government	3.000
Government	0.030	Government	0.130	Government	0.250
Government	0.130	Government	0.190	Government	0.020
Government	0.120	Government	0.140	Government	2.028
Government	0.030	Government	0.080	Government	2.010
Government	0.220	Government	0.020	Government	0.081
Government	0.108	Government	0.100	Government	0.013
Government	0.180	Government	0.080	Government	0.076
Government	0.575	Government	0.672	Government	0.185
Government	0.330	Government	3.046	Government	0.048
Government	0.010	Government	0.158	Government	0.228
Government	7.200	Government	0.014	Government	0.850
Government	0.089	Government	0.620	Government	0.575
Government	0.130	Government	0.023	Government	0.900
Government	0.420	Government	0.008	Government	0.080
Government	0.020	Government	0.080	Government	3.417
Government	0.490	Government	0.740	Government	0.150
Government	0.490	Government	0.110		
Total Credits Sold:	284.33				

Wright Mitigation Bank

Contact Information:

Bank Owner: California Department of Fish & Game
Central Coast Region
Address: P.O. Box 47
City, State, Zip: Yountville, CA 94599
Phone Number: (707) 944-5500

Bank Operator: Sotoyome Resource Conservation District

P.O. Box 11526
Santa Rosa, CA 95406
(707) 569-1448

Bank Information:

Bank Creation Date: 12/4/1997
Total Bank Acreage: 174

Total Credits Established: 600.0
Total Credits Sold: 600.0⁷
Total Credits Remaining For Sale: 0 (as of Sep 2004)

General location of the bank: Sonoma County, at the western edge of the City of Santa Rosa.

Service Area Description: the County of Sonoma (projects outside the service area could be eligible upon approval of the Parties to the agreement)

Service Area Counties: Sonoma

Financial Assurance Type:

Financial Assurances for Wetlands Establishment: N/A (preservation only)
Financial Assurances for Maintenance Period: funded from credit sales
Financial Assurances for Long-term management: Endowment Fund

Signatory Agencies: US Army Corps of Engineers, US Environmental Protection Agency, US Fish & Wildlife Service, CA Department of Fish and Game

Biological Information:

Bank Site Goals

Protection and maintenance of habitat for endangered species and species of special concern.

Percentage of Goals Achieved

100%

Wetland Habitat Functions:

Functions Before Bank Creation

Plant habitat
Fish and wildlife habitat
Short-term water storage
Nutrient cycling

Functions Created at the Bank Site

Plant habitat
Fish and wildlife habitat
Short-term water storage
Nutrient cycling

Total Wetland Acres Established: 0 (preservation only)

Total Wetland Acres (preservation): 48.5

Overall Wetland Habitat Success

Progress toward meeting success criteria: N/A - preservation bank

Habitat establishment work completed (date): N/A - preservation bank

Annual monitoring requirement: indefinitely

Annual monitoring completed: 8 years

Success criteria met (date): The wetland habitat is performing/ functioning like a regionally typical seasonal wetland.

Wright Mitigation Bank (continued)

Biological Information: (continued)

Operational Information:

Impacts Mitigated by Bank:

Wetland Functions Lost:

Data not reported¹

Wetland Acres Lost:

Data not reported¹

Credit Sales Summary:

Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:	Credits Sold To:	# Credits Sold:
Private Party	1.0	Private Party	1.0	Private Party	2.0
Private Party	4.0	Private Party	2.0	Private Party	1.0
Private Party	3.0	Private Party	4.0	Private Party	4.0
Private Party	1.5	Private Party	1.0	Private Party	8.0
Private Party	2.0	Private Party	3.0	Private Party	0.5
Private Party	0.5	Private Party	6.5	Private Party	14.0
Private Party	6.5	Private Party	2.0	Private Party	12.0
Private Party	13.5	Private Party	19.5	Private Party	1.0
Private Party	2.0	Private Party	2.5	Private Party	54.0
Private Party	3.25	Private Party	10.0	Private Party	23.0
Private Party	11.0	Private Party	15.0	Private Party	60.0
Private Party	15.0	Private Party	18.0	Private Party	11.0
Private Party	46.6	Private Party	150.5	Private Party	43.0
Private Party	14.15	Government	6.0	Government	1.0
Government	0.5				
Total Credits Sold:	600.0				

¹Information not available at the time this report was produced.

²Santa Rosa Plain: Includes the valley lands west, northwest, and southwest of the City of Santa Rosa, extending north to the town of Windsor, west to the vicinity of the town of Trenton and City of Sebastopol, and south to the vicinity of the City of Sebastopol, and the City of Cotati. The eastern boundary follows U>S. route 101 and Petaluma Hill Road south of Santa Rosa, then follows Highway 101 through Santa Rosa, veering east along the base of the Mayacames Mountains to the northern limit, north of the town of Windsor. The western boundary follows State Highway 116 from the vicinity of Cotati to the vicinity of Sebastopol, encompassing the bottom lands tributary to the Russian River, known as Lagunade Santa Rosa. From that point north, it follows approximately the 80 foot topographic contour line to the vicinity of Trenton, then follows Eastside Road to the northern limit.

³USDA Forest Service. 1997. Ecological Subregions of California. Section and subsection descriptions. R5-EM-TP-005. September 1997.

⁴The term "other security interest" as used here, encompasses various assurance options, but is typically some form of a security interest in property such as a certificate of deposit or other cash equivalent, government or corporate bonds, a mortgage, etc. Some of these types of assurance options may have been accepted in the past, but are not currently accepted by the agencies.

⁵Keeler-Wolf, Todd, D.R. Elam, K. Lewis, and S.A. Flint. 1998. California Vernal Pool Assessment Preliminary Report. California Department of Fish and Game. May 1998

⁶Bank sold out as of 1/29/2008, original 1994 bank agreement did not specify number of credits available for sale. Research into final number of credits allocated is pending.

⁷.Includes all types of credits (wetland/ species) available for sale.

Appendix B. Overview of Conservation Banks in California with Wetland Components

Name of Bank	County where bank is located	Counties within the banks service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	Wetland acreages at the bank	# wetland credits established	# wetland credits sold	# wetland credits remaining available for sale
Bryte Ranch Conservation Bank	Sacramento	portions of Sacramento, Placer, El Dorado, and Amador	12/21/2001	USFWS, CDFG	573	166.94 preserved	157.845	137.842	20.003 (as of Nov 2008).
Daley Ranch Conservation Bank	San Diego	cismontane San Diego County	1/29/1997	USFWS, CDFG	2842	41	18	7.0	11.0 (as of May 9, 2007)
Dolan Ranch Conservation Bank	Colusa	portions of Colusa, Glenn, Butte, Sutter, Yolo, and Solano	1/12/1999	USFWS, CDFG	252	47.59 preserved	33.1	21.658	11.442 (as of Sept. 2008)
Orchard Creek Conservation Bank	Placer	portions of Sutter, Yuba, Nevada, Placer, and Sacramento	1/22/1997	USFWS, CDFG	632.2	25.35	74.556	74.552	Closed (as of Dec 2003)
Springtown Natural Communities Reserve	Alameda	portions of Alameda, Contra Costa, Santa Clara, Santa Cruz, San Mateo, San Francisco, Marin, Solano, Napa, Sacramento, San Joaquin, Stanislaus	1/17/1997	CDFG	51.74	34.33	517.4	246.1	271.3 (as of Jul 2008)
Sunrise Douglas Mitigation Bank	Sacramento	Portions of Sacramento, Amador, El Dorado, and Placer	7/1998	USFWS, CDFG	482	101.2	Information not available at the time this report was produced.		
Swift-Turner Conservation Bank	Sonoma	a portion of Sonoma county	12/1/2006	USACOE, USEPA, USFWS, CDFG	34.18	7.44 preserved	0 (species credits only)	0	0

Appendix C. Overview of Non-wetland Conservation Banks in California

Name of Bank	County where bank is located	Counties within the banks service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	# Credits established	Credited species and habitat
Agua Fria Conservation Bank	Merced	portions of Stanislaus, Merced, Fresno	5/15/2002	USFWS, CDFG	1824.5	3220	Western Burrowing Owl and San Joaquin Kit Fox
Alton North Conservation Bank	Sonoma	portions of Sonoma	10/17/2007	USFWS, CDFG	27.67	22.5	California Tiger Salamander, Burke's Goldfields, Sonoma Sunshine
Brushy Creek Conservation Bank	Contra Costa	portions of Contra Costa, Alameda, and Santa Clara	3/9/2000	CDFG	120	118	Western Burrowing Owl
Byron Conservation Bank	Alameda	portions of Santa Clara and Alameda	2/9/2000	CDFG	140	139.2	Western Burrowing Owl, California Tiger Salamander, California Red Legged Frog, Western Pond Turtle, San Joaquin Kit Fox
Cajon Creek Habitat Conservation Management Area	San Bernardino	Undefined	10/1/1996	USACOE, USFWS, CDFG	610	610	Alluvial Fan Sage Scrub
Carlsbad Highlands Conservation Bank	San Diego	a portion of San Diego	4/5/1995	USFWS, CDFG	180	180	Coastal Sage Scrub
Chiquita Canyon Conservation Bank	Orange	Los Angeles, Orange, Riverside, San Bernardino, and San Diego	5/29/1996	USFWS, CDFG, TCA	1182	892	California Gnatcatcher, Coastal Sage Scrub, Perennial Grassland Ecotone, Oak Woodland, Oak Savannah, Native Forb, Non-wetland Watercourse

Appendix C. Overview of Non-wetland Conservation Banks in California (continued)

Name of Bank	County where bank is located	Counties within the banks service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	# Credits established	Credited species and habitat
Coles Levee Ecosystem Preserve	Kern	undefined – bank established prior to requirement	3/1/1996	CDFG, USFWS	6059	Limited to 6059 and by written agreement by USFWS and CDFG	San Joaquin Kit Fox, Tipton Kangaroo Rat, Giant Kangaroo Rat, Blunt-nosed Leopard Lizard, Hoovers Eriastrum, San Joaquin Antelope Squirrel, San Joaquin Le Conte's Thrasher, Short-nosed Kangaroo Rat, Southern Pond Turtle, Slough Thistle, Recurved Larkspur, San Joaquin Woolly Threads, Kern Mallow, Western Burrowing Owl
Cornerstone Lands Conservation Bank	San Diego	portions of San Diego	7/16/1997	USFWS, CDFG, City of San Diego	2600	1000	Threatened and Endangered Species
Crestridge Conservation Bank	San Diego	portions of San Diego	10/20/1995	USFWS, CDFG	2377	2057.8	Oak Riparian Woodland, Inland Sage Scrub, Chaparral
Dolan Ranch Conservation Bank	Colusa	portions of Colusa, Yolo, Solano, Glenn, Butte, Sutter, Yuba, Tehama, Sacramento, Nevada, Placer	1/12/1999	USFWS, CDFG	252	308.94	Giant Garter Snake, Swainson's Hawk, Western Burrowing Owl, Vernal Pools
Haera Wildlife Conservation Bank	Alameda	portions of Contra Costa, Alameda, San Joaquin, and Stanislaus	4/23/2001	USFWS, CDFG	299	299	Western Burrowing Owl, San Joaquin Kit Fox
Heights of Pala Mesa Conservation Bank	San Diego	a portion of San Diego	1/21/2000	USFWS, CDFG	321.3	317.4	California Gnatcatcher, Coastal Sage Scrub, and Chaparral

Appendix C. Overview of Non-wetland Conservation Banks in California (continued)

Name of Bank	County where bank is located	Counties within the banks service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	# Credits established	Credited species and habitat
Jenny Farms Conservation Bank	Solano	portions of Yolo, Solano, and Sacramento	12/16/2005	CDFG	405.56	405.56	Swainson's Hawk and Western Burrowing Owl
Kern Water Bank Conservation Bank	Kern	portions of Kern, Kings, and Tulare	10/2/1997	USFWS, CDFG	3267	3267	San Joaquin Kit Fox, Tipton Kangaroo Rat, Blunt-nosed Leopard Lizard and other species
Livermore Equity Group Conservation Bank	Contra Costa	eastern Contra Costa, and Alameda	2/10/1998	CDFG	211	211	San Joaquin Kit Fox
Lost Hills Utility District Conservation Bank	Kern	a portion of Kern	1/17/2002	USFWS, CDFG	157.5	157.2	Upland Species
Manchester Avenue Conservation Bank	San Diego	San Diego	9/30/1997	USFWS, CDFG	123	168.2	Orange Throated Whiptail, San Diego Thorn Mint, Southern Maritime Chaparral, Coastal Sage Scrub, Coastal Gnatcatcher Habitat
Ohlone Preserve Conservation Bank	Alameda	portions of Alameda, Contra Costa, Santa Clara, San Joaquin, San Mateo, San Benito, Stanislaus, and Merced	6/26/2005	USFWS, CDFG	640	Up to 638.5 acres of credit. Credit multipliers have been used for several species and the conversion is not a 1:1 ratio.	California Red-legged Frog, California Tiger Salamander, and Alameda Whipsnake

Appendix C. Overview of Non-wetland Conservation Banks in California (continued)

Name of Bank	County where bank is located	Counties within the banks service area	Date the bank was created	Signatory agencies	Overall acreage of the bank	# Credits established	Credited species and habitat
Palo Prieto Conservation Bank	Kern & San Luis Obispo	San Luis Obispo	8/4/2006	CDFG	876	874	San Joaquin Kit Fox
Pleasanton Ridge Conservation Bank	Alameda	portions of Alameda, Contra Costa and Santa Clara	1/20/1999	USFWS, CDFG	654.1	972.565	California Red-legged Frog, Alameda Whipsnake
Pope Ranch Conservation Bank	Yolo	portions of Colusa, Yolo, Sacramento, Contra Costa and Solano	4/27/2001	USFWS, CDFG	391	387	Giant Garter Snake
Slippery Rock Conservation Bank	Sonoma	Undecipherable from map	11/6/2006	USFWS, CDFG	38.06	31	California Tiger Salamander
Whelan Ranch Conservation Bank	San Diego	a portion of Sonoma	12/4/1997	USFWS, CDFG	136	136	Coastal Sage Scrub

Appendix D. Official Policy on Conservation Banks, April 7, 1995

California Environmental Protection Agency

555 Capitol Mall, Suite 235
Sacramento, CA 95814
PHONE (916) 445-3846
FAX (916) 445-6401



PETE WILSON
GOVERNOR

The Resources Agency

1416 Ninth Street, Suite 1311
Sacramento, CA 95814
PHONE (916) 653-5656
FAX (916) 653-8102

TO: All Departments, Commissions, Boards and Conservancies
("Departments")

FROM: Douglas P. Wheeler
The Resources Agency

James M. Strock
California Environmental Protection Agency

Handwritten signatures of Douglas P. Wheeler and James M. Strock.

DATE: April 7, 1995

SUBJ: Official Policy on Conservation Banks

The executive and legislative branches have endorsed the use of conservation banks as a means to accomplish important resource management goals. This document provides formal policy guidance on how to achieve this directive.

INTRODUCTION

A conservation bank is a single parcel, or a series of contiguous or non-contiguous parcels, of habitat which is managed for its natural resource values. The resource benefits derived from this management regime are sold as "credits" to project proponents who seek mitigation opportunities to compensate for

resource impacts elsewhere. Credits may be generated to meet any number of resource conservation needs, including compensation for impacts to wetlands, threatened or endangered species, Environmentally Sensitive Habitat Areas, mudflats, sub-tidal areas, and less sensitive resources.

Conservation banks, if properly established and managed, serve several useful functions. First and foremost, banks provide for the conservation of important habitats and/or habitat linkages.

Second, they provide a viable alternative to the current practice of requiring piecemeal mitigation for individual project impacts. Individualized mitigation projects which have little connection with their surrounding ecosystem are often much more prone to failure than a mitigation project which is incorporated into a larger, ecosystem-based conservation bank or regional conservation plan.

Third, conservation banks can take advantage of economies of scale that are often not available to individualized mitigation projects.

Fourth, conservation banks provide significant incentives for private landowner participation and represent one of the best examples of private/public partnerships in an era of shrinking budget resources.

Fifth, conservation banks can be a major funding component for the creation of an ecosystem preserve under a regional conservation plan.

Sixth, and finally, conservation banks simplify the regulatory compliance process while achieving greater conservation goals.

CONSERVATION BANKING

For purposes of providing guidance on conservation banking, all Departments shall designate and train personnel to actively work with potential bank developers in accordance with the following precepts:

1. The priority for mitigation should be to accomplish it at a site which provides for the long-term conservation of habitat and species. As such, off-site mitigation is specifically sanctioned in the context of an otherwise permissible conservation bank.
2. A bank may be established pursuant to regulatory permit or contract between the bank developer and the appropriate regulatory agency(s). Where a bank is established pursuant to contract, care must be taken to create a legally enforceable instrument.

3. There is no minimum or maximum size of a conservation bank and it may be divided into clearly defined subareas. However, the bank and each of its subareas (if any) should be large enough to be ecologically self-sustaining or part of a larger conservation strategy that has a reasonable expectation of being accomplished.

4. Upon sale of the first credit in the bank or subarea, the land in the bank or subarea must be permanently protected through fee title or conservation easement. The land-use restrictions should run with the land and be recorded in the appropriate county(s) of jurisdiction.

5. Before selling bank credits, a proposed conservation bank should be approved by the appropriate resource management agency(s). Basic elements in any approvable bank proposal should include, but are not limited to:

- a. identification of a bank manager;
- b. identification of the geographical boundaries of the bank and the service area of the bank;
- c. provision for fundamental property protection measures (e.g., fencing some or all of the bank property if deemed appropriate,

control of off-road vehicle use, etc.);

- d. provisions for the resolution of current or prospective land use conflicts involving the bank lands (e.g., rights-of-way issues, existing use issues, adjacent land-use issues);
- e. provisions requiring an annual report by the bank manager to be submitted to the appropriate regulatory agency(s).

6. Prior to the sale of credits, a resource management plan should be approved by the appropriate regulatory agency(s). A sufficient level of funding with acceptable guarantees (e.g., cash, letters of credit, public charity, public funding mechanism) should be provided to fully ensure the operation and maintenance of the bank as may be required.

7. Provision should be made for long term management of bank lands after all the mitigation credits have been awarded. Generally, land management responsibilities should ultimately vest in a resource management agency or qualified non-profit organization, although a private entity may be an acceptable long-term manager.

8. Provision should be made for ensuring implementation of the resource

management plan in event of non-performance by the bank owner and/or operator.

9. Provisions should be made in any bank establishment for the monitoring and reporting of identified species/habitat management objectives.

10. An easement or other agreement should be established at the bank in favor of appropriate resource management agency(s) guaranteeing the agency's right of entry onto bank lands for the following purposes:

- a. Inspections;
- b. Specified resource management responsibilities;
- c. Quality Assurance/Quality Control review with regard to bank management and operation;
- d. Resource management should the bank operator fail to implement prescribed resource management responsibilities.

11. Bank credits should be established by reference to an environmental baseline which may, but need not be, assessed at the time of the bank creation. This baseline will be used to establish credits for a number of categories requiring

resource management, including, but not limited to, the following:

- a. Resource Preservation (the preservation of specified resources through acquisition or other appropriate means);
- b. Resource Enhancement (the enhancement of a degraded resource);
- c. Resource Restoration (the restoration of a resource to its historical condition);
- d. Resource Creation (the creation of a specified resource condition where none existed before).

12. The award of bank credits should be negotiated on a case-by-case basis between the project proponent in need of the subject credits, the regulatory agency(s) of jurisdiction, and the bank manager. Generally:

- a. Credits may be negotiated for available or prospective resource value establishment.
- b. Credits may be based on habitat acreage, habitat quality,

contribution to a regional conservation strategy that has been approved by the appropriate regulatory agency(s), or any other basis acceptable to the regulatory agency(s).

- c. Actual awards of bank credits need not be withheld pending full realization of the targeted resource value at the bank. Credit availability may vary in accordance with agreed upon performance criteria for the development of the resource value in question.
- d. Awarded bank credits, subject to the approval of the regulatory agency(s), should be made transferrable.

13. Whether out-of-kind mitigation credit will be allowed at a particular bank will require a fact-specific inquiry on a case-by-case basis for the project creating the impacts.

14. The creation of any conservation bank should be listed with the Resources Agency in accordance with forthcoming guidance for purposes of maintaining a statewide bank inventory.

CONCLUSION

Conservation bank agreements developed between the bank developer and the appropriate regulatory agency(s) in accordance with the preceding precepts shall be considered consistent with state policy regarding conservation banks, assuming no violation of federal and state laws. Training manuals on this subject are forthcoming.

f:\jim\mitbank.06