

San Bernard Watershed Protection Plan Update

JUNE 16, 2011



Draft Watershed Protection Plan



- Seven draft chapters of the WPP have been added to the website www.h-gac.com/go/sanbernard
- We will be sending out a survey to gather feedback on the draft chapters that are posted
- Once modeling is complete, the results will be added to the document
- TCEQ has approved the modeling proposal and submitted to EPA for final approval
- Runoff Curve Numbers are being produced for the watershed based on land cover data

San Bernard Watershed Protection Plan Outline

1. Watershed Introduction
 - 1.1. Watershed Protection Planning
2. Watershed Inventory and Characterization
 - 2.1. Geography
 - 2.2. Land Use
 - 2.3. Demographic Data
 - 2.4. History
 - 2.5. Current Conditions
3. San Bernard Stakeholder Group
 - 3.1. Public Participation
4. Watershed Analysis
 - 4.1. Background Information
 - 4.2. Historical Data
 - 4.3. 303d List
5. Causes and Sources of Pollution (Element A)
 - 5.1. Causes and Sources
 - 5.2. Modeling Approach
 - 5.3. Modeling Results
 - 5.4. Goals and Water Quality Targets
6. Estimated Load Reductions (Element B)
 - 6.1. Agriculture
 - 6.2. Animals
 - 6.3. Wastewater Treatment Plants/Outfalls
 - 6.4. OSSFs
 - 6.5. Urban Runoff
7. Management Measures (Element C)
 - 7.1. Agriculture
 - 7.2. Animals
 - 7.3. Wastewater Treatment Plants/Outfalls
 - 7.4. OSSFs
 - 7.5. Urban Runoff

WPP Website Updates



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http://www.h-gac.com/community/water/watershed_protection/sanbernard/default.aspx

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Next Stakeholder Meeting
The next Stakeholder Meeting will be held Thursday, June 16 from 5:30 pm to 7:30 pm at the Wharton...

Upcoming Events
Clean Waters Initiative Workshop: Sediments in Our Waterways, Wednesday, June 22 from 1:00 pm to 4:00 pm at Galveston Area Council, Conference Room A.

Important Links
[SELECT Modeling Presentation \(PDF\) 1.6M](#)
[Stakeholder Meeting Presentation February 17, 2011 \(PDF\) 190K](#)
[BMP Prioritization Activities \(PDF\) 265K](#)
[San Bernard River Watershed Map \(PDF\) 890K](#)
[San Bernard River Monitoring Stations Map \(PDF\) 3.9M](#)
[San Bernard River Public Participation Plan \(PDF\) 340K](#)
[San Bernard River Inventory and Characterization \(PDF\) 2M](#)
[San Bernard River Water Quality \(PDF\) 1.3M](#)
[San Bernard River Watershed Ambient Monitoring Tour \(PDF\) 5.1M](#)
[Best Management Practices, Transect Approach \(PDF\) 500K](#)
[San Bernard River Monitoring QAPP Overview \(PDF\) 801K](#)
[San Bernard River Modeling Overview \(PDF\) 77K](#)
[Water Quality Management Plans in the San Bernard Watershed \(PDF\) 3.96M](#)
[Watershed Short Course Overview \(PDF\) 499K](#)
[The Nature Conservancy in the Columbia Bottomlands: Brazos River Project \(PDF\) 4.34M](#)
[San Bernard Monitoring Modeling Update: Nine Elements of Watershed Protection Planning \(PDF\) 1.1M](#)
[Riparian Areas: What are They Worth? \(PDF\) 6.03M](#)
[Upcoming Grant Opportunities \(PDF\) 549K](#)
[OSBP Map for the San Bernard Watershed \(PDF\) 7.03M](#)
[Stakeholder Meeting Presentation April 28, 2011 \(PDF\) 820 K](#)
[The TCEQ Non-Point Source Program \(PDF\) 1.2 M](#)
[SELECT Modeling Update \(PDF\) 1.81 M](#)
[2006 Land Cover Map \(PDF\) 2.79 M](#)

NEW 6/24/11 - WATERSHED PROTECTION PLAN DRAFTS
[Chapter 1 - Watershed Introduction](#)
[Chapter 2 - Watershed Inventory and Characterization](#)
[Chapter 3 - Public Participation](#)
[Chapter 4 - Watershed Analysis](#)
[Chapter 5 - Causes and Sources of Pollution \(Element A\)](#)
[Chapter 6 - Management Measures \(Element C\)](#)
[Chapter 9 - Outreach and Education \(Element E\)](#)

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SAN BERNARD RIVER WATERSHED PROTECTION PLAN

San Bernard River Watershed Protection Plan

Model Ordinances to Reduce Nonpoint Source Pollution

Best Management Practices along the Rural to Urban Transect

SAN BERNARD RIVER WATERSHED PROTECTION PLAN

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RESOURCES
[Water Quality Data](#)
[Water Pollution Complaint Contacts](#)
[Publications and Resources](#)
[Water Resources Information Map](#)
[Find a Watershed](#)

Due to high bacteria levels, portions of the San Bernard River have been designated unsuitable for recreational activities, such as swimming. In addition, excessive nutrients and low dissolved oxygen levels have also been found which may negatively affect fish and other aquatic life. The Houston-Galveston Area Council will develop the San Bernard Watershed Protection Plan (San Bernard WPP) over the next two years. This project is funded by a grant from the Texas Commission for Environmental Quality (TCEQ) and the U.S. Environmental Protection Agency (EPA) under the American Recovery and Reinvestment Act (ARRA). H-GAC will work with community stakeholders to develop the plan.

What is a Watershed Protection Plan?
A watershed is an area of land that drains to a common waterway, such as a stream, river or ocean. Watershed protection plans provide a framework to restore and protect water quality in areas affected by run-off pollution. The plan outlines Best Management Practices (BMPs) that address issues in the watershed and offers a guide for local governments to manage the impacts of future growth on water quality, health risks and ecological resources.

How it works
The watershed protection plan is designed to give water quality managers the tools needed to help make decisions to maintain or improve water quality within the region by:

- providing a basis for a largely rural watershed to prepare for anticipated growth and urbanization
- helping local governments incorporate appropriate BMPs in their jurisdictions, ensuring that resources are not wasted on BMPs that will not work for their area
- analyzing run-off pollution problems with geographic information systems (GIS) to strengthen watershed modeling efforts

Internet 100%

Additional Monitoring



- We received notice from the TSSWCB that we have been pre-approved for 319 (h) funding for additional monitoring from September 2011 to August 2013. Pending EPA approval
- This includes:
 - Ambient monitoring monthly at 5 sites
 - 10 additional quarterly monitoring sites
 - Wet weather monitoring over 7 seasons at 15 sites
- Will work with TCEQ to get funding for additional watershed coordination through August 2012 – however we need match to do this
- BMP monitoring plan is pending TCEQ approval



OSSF Mapping Project

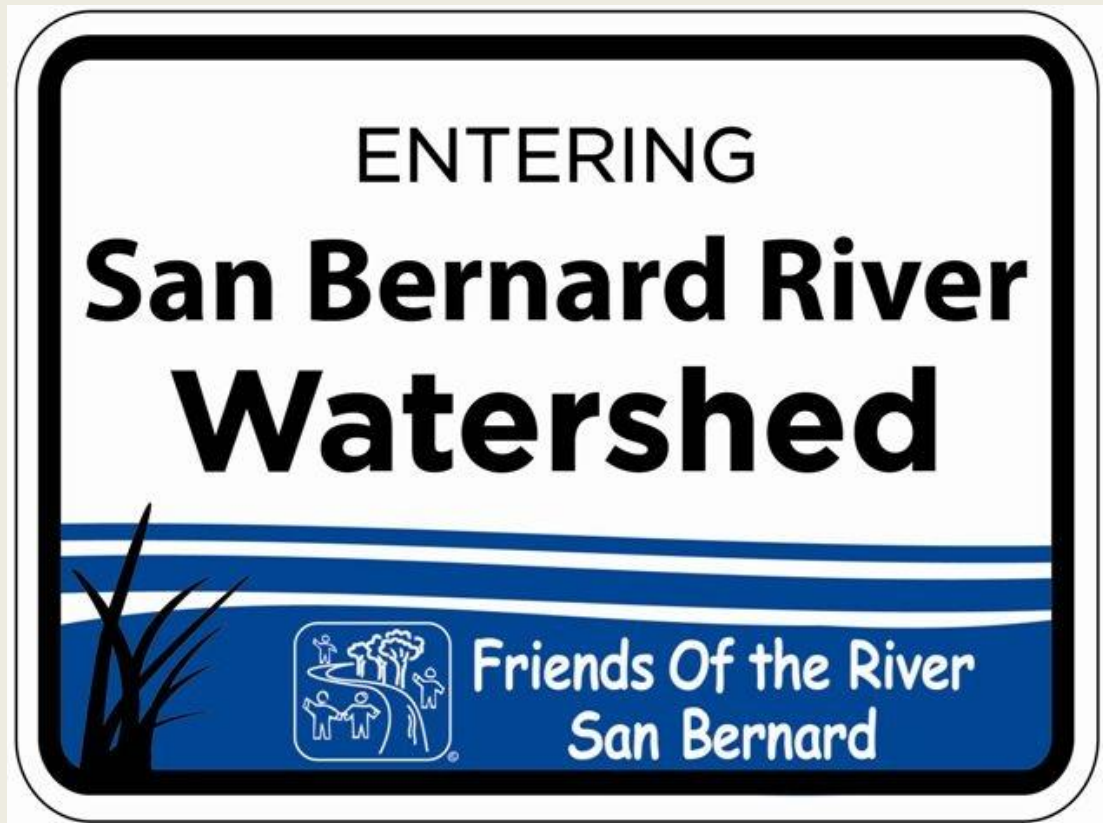


- The OSSF QAPP has been approved by TCEQ and has been sent to EPA for final approval
- A map has been created with point data for the OSSF information collected
 - Also collecting data for failures and complaints
 - Will work to identify unpermitted and grandfathered systems (those installed prior to 1989)
- This information will be added to the website once it is complete
- We will resume work after approval from EPA within the next few days

San Bernard Watershed Signage



- We have received funding from the Clean Rivers Program for watershed signage



Upcoming Events



- **Wednesday, June 22**
 - CWI Workshop: Sediments in Our Waterways
 - 1:00 to 4:00 p.m. at H-GAC in Houston
- **Friday, June 24**
 - Final RUAA meeting
 - 12:30 to 1:30 p.m. in Needville
- **Thursday, August 18**
 - Next Stakeholder Meeting
 - 5:30 to 7:30 p.m. in West Columbia

Questions?



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