Role of Citizen Based Monitoring Programs in Creating a Healthy Watershed

Shannon Quigley San Diego River Park Foundation Headwaters to Ocean October 29, 2009



San Diego River Park Foundation

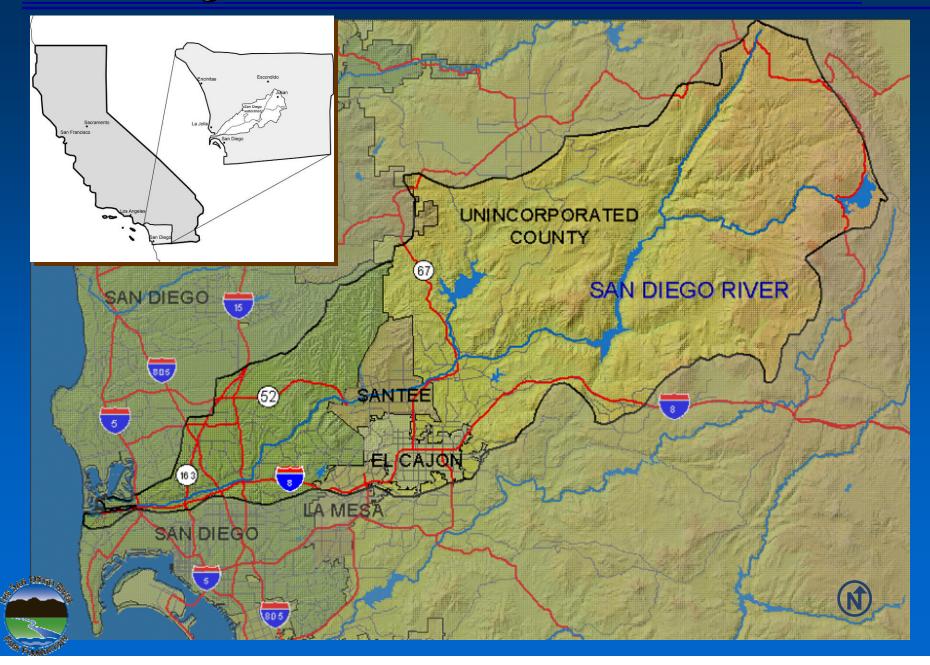
• 501 (c) (3) Non Profit Public Benefit Corp.

• <u>Mission:</u> To Support and Empower Community Groups Working to Restore and Enhance the San Diego River and its Watershed and to Foster Stewardship of this Important Community and Regional Asset

• To create the San Diego River Park



San Diego River Watershed



Challenges









San Diego River Park Foundation

Healthy River Healthy Communities

- River Watch
- River Blitz
- Clean and Green Team
- River Rescue







Healthy River Healthy Communities

- 2,500 Volunteers
- 10,000 Hours
- 1 Million Pounds of Trash
- Completion of 5th Water Year Monthly Monitoring

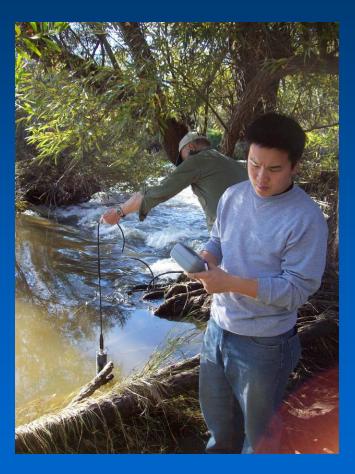






River Watch

- Monthly
- 15 Sites
- YSI 6920 Sonde
- Nitrate and Phosphate Test Kits
- Qwiklite Toxicity Test





River Blitz

- Bi-annual
- 30 miles
- 2-3 Hour Survey Segments
- Trained Volunteer Leaders





Web-based Information Center

 Survey Results <u>www.ecolayers.biz/sdrpf-riverblitz</u>
Water Quality <u>www.ecolayers.biz/sdrpf-riverwatch</u>
Trash Data www.ipprivers.com/sandiogo

www.imrivers.com/sandiego

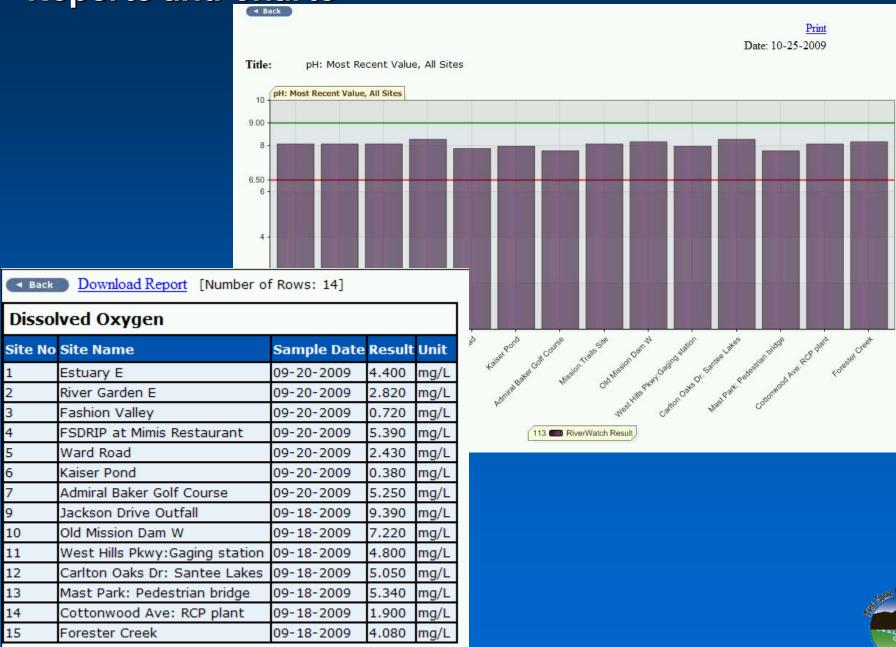


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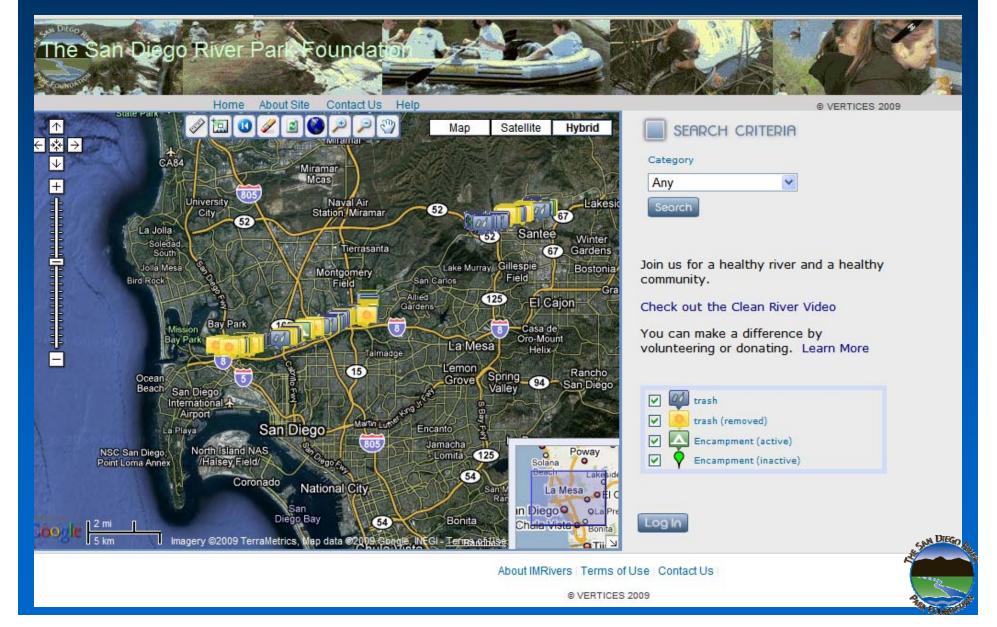
Water Quality



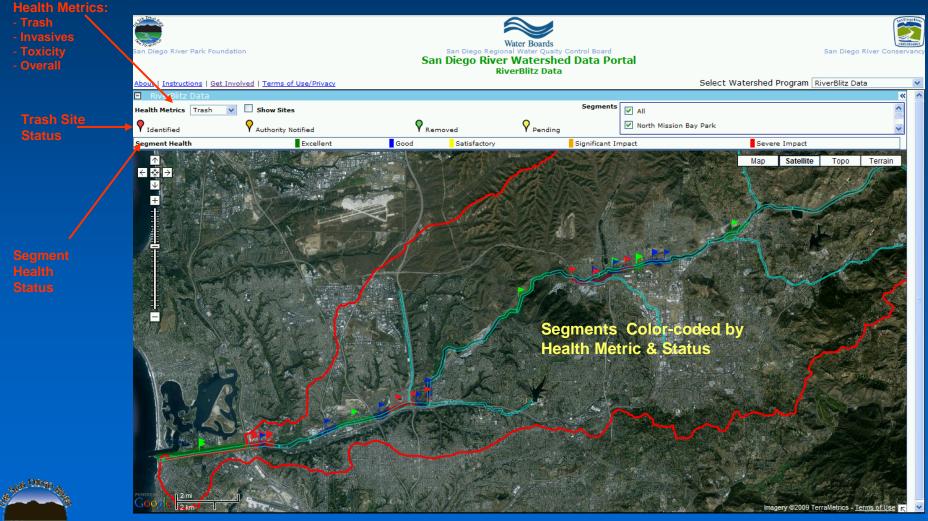
Reports and Charts



Trash Data



River Health



San Diego River Park Foundation

Reports and Statistics

Back Download Report

Invasive Statistics: Segment 11

FeatureID	Longitude	Latitude	SurveyDate	InvasivePlantName	Comments
RB-N0174	-117.12208	32.77878	10/26/2008	Arundo	near camp- way pt. 4, can't really tell sq. footage
RB-N0175	-117.12197	32.77908	10/26/2008	Arundo	
RB-N0176	-117.12122	32.77942	10/26/2008	Arundo	
RB-N0177	-117.12088	32.77954	10/26/2008	Arundo	
RB-N0178	-117.11984	32.7799	10/26/2008	Arundo	hard to tell sq. footage. It starts approx 50' in from road
RB-N0179	-117.12122	32.77949	10/26/2008	Brazilian Pepper Tree	Pepper Tree w/ camp underneath
RB-N0180	-117.11894	32.7803	10/26/2008	Brazilian Pepper Tree	
RB-N0181	-117.11879	32.78031	10/26/2008	Brazilian Pepper Tree	
RB-N0182	-117.11557	32.78103	10/26/2008	Brazilian Pepper Tree	Multi Trunks
RB-N0183	-117.11943	32.78002	10/26/2008	Tamarisk	
RB-N0184	-117.12204	32.779	10/26/2008	Mixed	Arundo and castor bean, contains a small camp- way pt. 4
RB-N0185	-117.12189	32.77926	10/26/2008	Mixed	numerous pepper trees w/ castor beans and pampas grass- some natives, mixed in notably toyon
RB-N0186	-117.12079	32.77963	10/26/2008	Mixed	Fan Palm and Pepper tree
RB-N0187	-117.11982	32.77994	10/26/2008	Mixed	Mixed tamarisk, pepper tree, and pampas grass
RB-N0188	-117.11943	32.78002	10/26/2008	Mixed	line of pepper trees w/ arundo behind pepper into river
RB-N0189	-117.11919	32.78014	10/26/2008	Mixed	eucalyptus and pepper trees - and castorbian
RB-N0190	-117.11801	32.7802	10/26/2008	Mixed	line of pepper trees w/ arundo fanpalms and pampas grass
RB-N0191	-117.11791	32.78061	10/26/2008	Mixed	arundo, castor bean, and pepper trees, eucalyptus
RB-N0192	-117.11744	32.78072	10/26/2008	Mixed	solid line of arundo, eucalyptus, pepper trees

Trash Statistics: Segment 07B

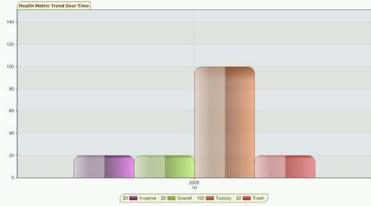
	Trash Site	Longitude	Latitude	Date Identified	Current Status	Comments
	RB-T0180	-117.18992	32.76161	10/25/2008	Identified	
	RB-T0181	-117.19287	32.76193	01/25/2008	Identified	
	RB-T0182	-117.19244	32.76087	10/26/2008	Identified	
	RB-T0183	-117.18961	32.76138	10/25/2008	Identified	
	RB-T0184	-117.19173	32.76092	10/25/2008	Identified	
	RB-T0185	-117.19030	32.76143	10/25/2008	Identified	
	RB-T0186	-117.19044	32.76167	10/25/2008	Identified	
	RB-T0187	-117.18941	32.76152	10/25/2008	Identified	
9	RB-T0188	-117.19180	32.76189	10/25/2008	Identified	
	RB-T0189	-117.19301	32.76100	10/25/2008	Identified	

SPAN DIEGO,

Title: Health Metric Trend Over Time 11 (Note: A = 100; B = 80; C = 60; D = 40; F = 20; No Data = 0)

(1012: N = 100; 8 = 00; C = 00; 0 = 10; 7 = 20; 10

· Back



Print

Date: 10-25-2009

Action

Trash Removal-

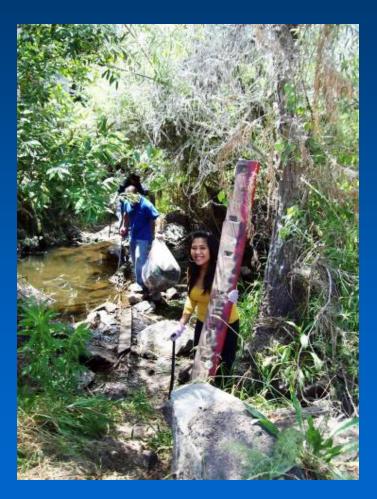
 The Clean and Green Team

bi-monthly large scale volunteer clean-ups

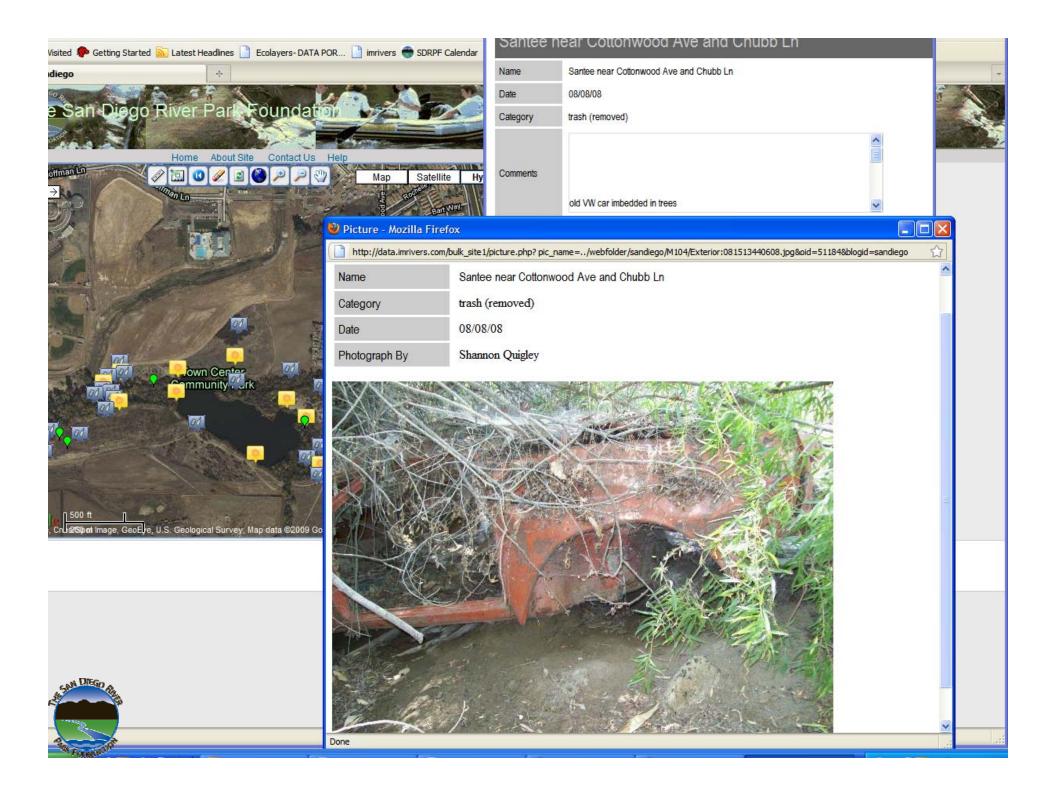
River Rescue

small or remote sites, weekdays

- Stakeholder Partnerships
- IMRivers







Action

Invasive Plant Removal

Graffiti Removal

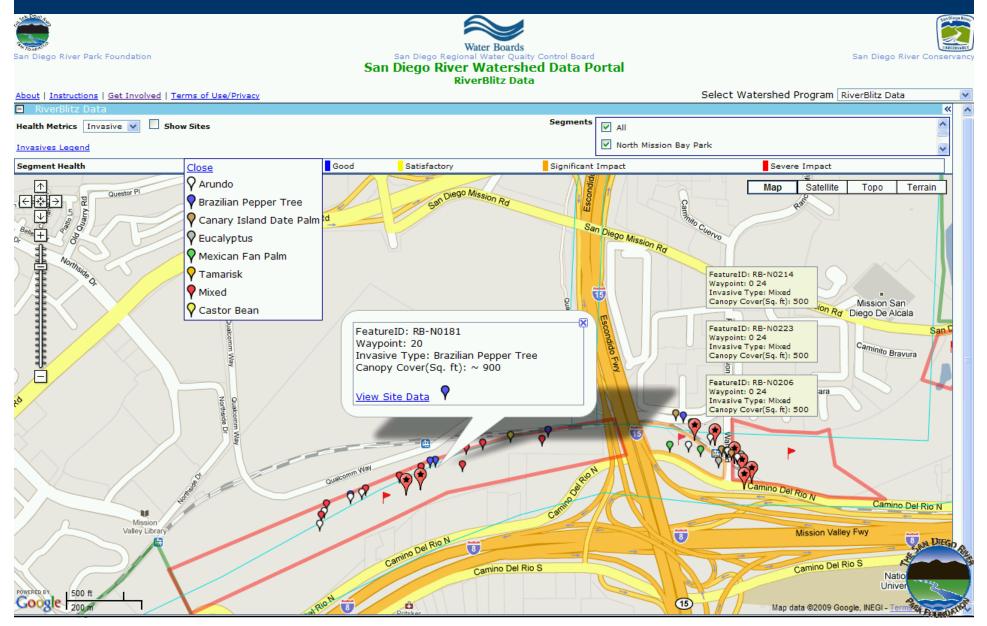




San Diego River Park Foundation



Invasive Profile



Partnerships and Collaboration

City of San Diego Stormwater Padre Dam Municipal Water District Helix Water District City of Santee County of San Diego Sheriff's Department Santee Station City of El Cajon Stormwater City of San Diego Parks and Recreation The San Diego River Conservancy Department of Fish and Game San Diego Police Department Eastern and Western Division San Diego Regional Water Quality Control Board **SPAWAR** City of San Diego Graffiti Paint Bank

Aquafina Home Depot H.G. Fenton Property Management Kaiser **HSBC** Auto Finance REI Lincoln Military Housing **Armed Services YMCA** John Smith Earthworks Hervey Family Fund at the San Diego Foundation Take Pride in America American Rivers Union Bank of California SonTek/YSI San Diego State University River Net



Volunteers

- Armed Services YMCA
- Lincoln Military Housing
- University of California, San Diego
- Wal-Mart
- Qualcomm
- San Diego State University
- Mail Boxes Etc.
- Hanblecyea
- AmeriCorps
- Magnolia Trails Girl Scouts
- HSBC
- Court Referral
- Volunteer San Diego
- Warren Walker
- Kipp Adelante Academy
- High Tech Middle School
- High Tech High
- Helix Charter School
- Hilton Management Team





Next Steps

 Remove identified existing trash and debris by October 2010

 Inclusion of headwaters, tributaries and canyons within watershed- facilitate action through survey and monitoring techniques.









www.sandiegoriver.org