

EMERALD NECKLACE NATURAL INFRASTRUCTURE BENEFITS

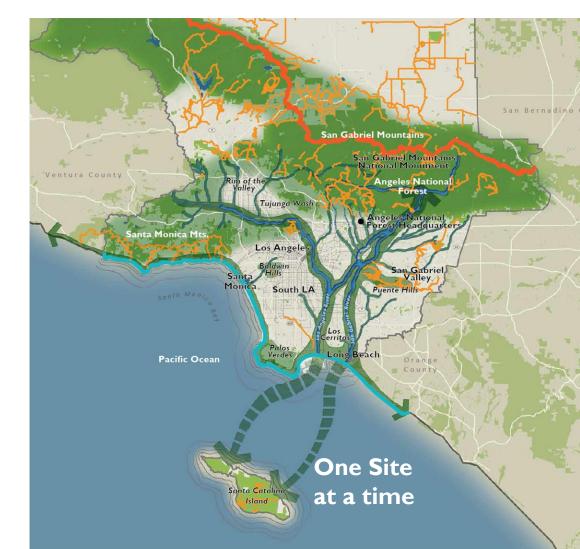
Claire Robinson, Managing Director Amigos de los Rios







LANDSCAPE SCALE CONSERVATION 'WATERSHED APPROACH' Olmsted Bartholomew Plan 1930/First Peoples 501©3 Founded 2003

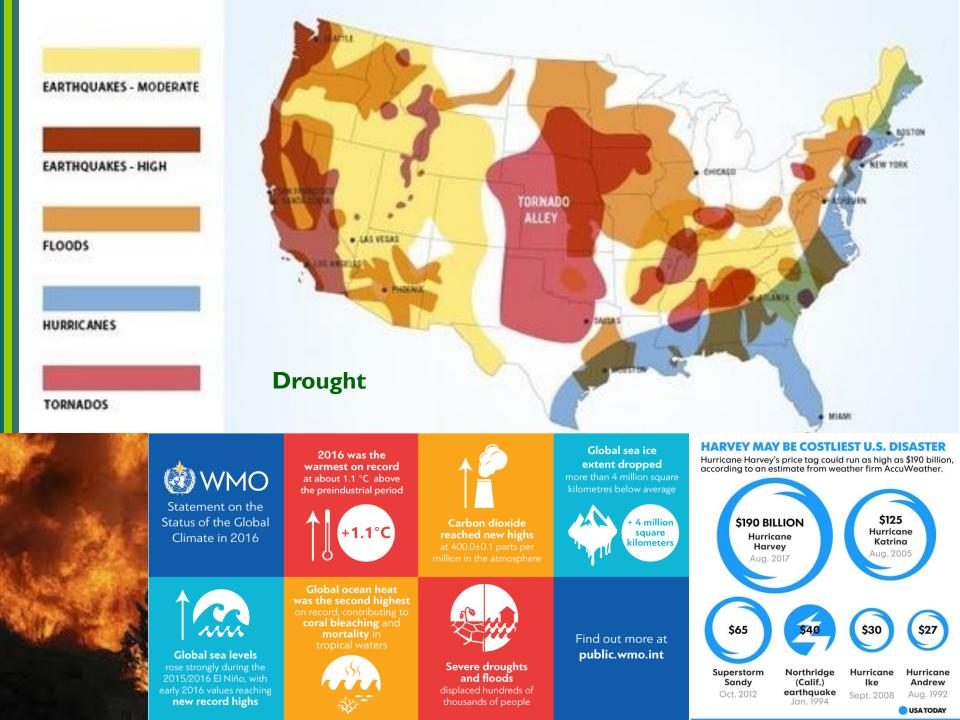


Who We Are ?

Non-profit organization committed to natural infrastructure: enhancing open space & protecting natural resources in our urban environments by creating an 'Emerald Necklace' Green Infrastructure network of sustainable parks, trails and schools throughout the Los Angeles Basin from the San Gabriel 'Mountains to the Sea.'

Making Metro Areas Livable & Sustainable





Urban Large Landscape Scale Conservation Collaborative

Common Agenda

· Keeps all parties moving towards the same goal

Common Progress Measures

Measures that gert to the TRUE outcome

Mutually Reinforcing Activities

· Each expertise is leveraged as part of the overall

Communications

This allows a culture of collaboration

Backbone Organization

Takes on the role of managing collaboration

Efficiency of Collective Impact Model



Metropolitan Greenspace Alliance







Allance | P.O. Box 5632 | Portland, Oregon 97228 | P. 503.288.5790 | Mike. Wetter (Boregonnie www.theintertwine.org

citizens of the Pacific Northwest, so dearly value.

TWINE



organizations. Our geographic boundary encompasses the glaciated lands and waters south of Canada from Sandusky Bay to the Allegheny Mountains. This region contains diverse habitats and rare ecosystems that harbor many unique and uncom These natural communities are found within an extensive network of public and private lands throughout the glacisted region of northeastern Ohio, northwestern Pennsylvania, and western New York.

www.leaphio.org



eet Water, the Southeastern Wisconsin Watersheds Trust, Inc., is an award-winning nonprofit partne to achieve healthy water resources throughout the 1,100 square mile Greater Milwaukee watersheds. Recognizing that our rivers trivel through the region irrespective of governmental boundaries, Sweet Water addresses the issues facing our five watersheds and nearthone Lake Michigun through a cooperative, basin-wide approach. Hembers include local nts, special purpose districts, non-profits, residents and representatives of business and academis et Water | 600 E. Greenfield Ave | Milwaukee, WI 53204-2944 | P. 414.382, 1766 | ma

www.swwtwater.or SWEET WATER



LEAP FOR BIODIVERSITY

National Movement Efficient Natural 'State of Art' Infrastructure for Cities

Los Angeles Basin – Major Rivers & Protected Lands San Gabriel Mountains/Angeles **National Forest** Rim of the Valley San Gabriel Santa Monica Mountains. Los Angeles River River





Convergent Efficient Natural Infrastructure

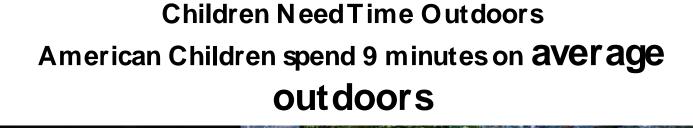
OUR RIVERS



"This book is an absolute must-read for parents." -The Boston Globe

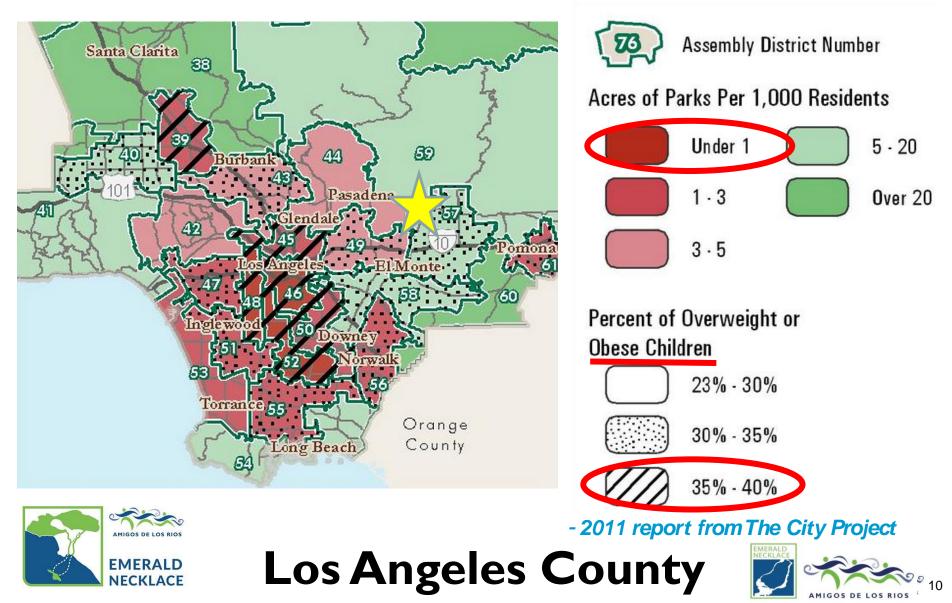
Last Child in the Woods

Saving Our Children from Nature-Deficit Disorder



CONNECTING URBAN FAMILIES TO NATURE

Disparity of Access to Natural Areas & to Recreation

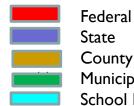


Taxonomy Conditions - Urban River Transect

- Pristine Forest/ Wilderness Areas
- **Forest Recreational** 2. Areas
- 3. **Protected Species** Areas
- Single Family 4. Housing
- 5. **Equestrian Facilities 20. Major Freeway**
- **Religious Institutions 21. Billboard Site** 6.
- 7. Army Corps Facilities
- **Transportation Yard** 8.
- 9. Major Arterial
- 10. Industrial Park
- II. Sanitation/Fill Sites
- 2. School
- 13. Multi-Family Housing
- **14.** Airport

- **15.** Commercial/Retail
- 16. Industrial/
 - Manufacturing
- **17. Municipal Water** Management/ **Spreading Basins**
- **18. Superfund Site**
- **19. Railroad Crossing**
- 22. Wetland
- 23. Wash, Creek &
 - **Stream**
- 24. Brownfield
- 25. Vacant Lot-
 - Commercial
- 26. Vacant Lot-Residential
- 27. Golf Course
- 28. Nurseries

- 29. Fire Station
- **30. Regional Transportation-Bus /Metro link Station**
- **31. Regional Park**
- 32. Pocket Park
- **33. Neighborhood Parks**
- 34. Quarry Alluvial Material
- **35. Dead End Street**
- **36. Trailer Park**
- 37. Bike/Pedestrian path
- 38. Ports
- **39. Office Complexes**
- **40. Residual Spaces**



State County Municipal School District Private



URBAN RIVER GREENWAY



EMERALD NECKLACE

GIBSON MARIPOSA PARK

PARK

EMERALD NECKLACE FOREST TO OCEAN EXPANDED VISION PLAN:

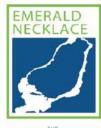
Towards a Common Vision

Winner of American Planning Association International Open Space Network Design Award for2016

The Emerald Necklace Forest to Ocean Expanded Vision Plan: Towards a Common Vision Funded by: The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 Proposition 84 and the State of California Strategic Growth Council







CONSERVATION FUND

© 2014 Amigos de los Rios



"For thousands of years, rivers of LA Basin held a perennial flow of clean water....

Restoration of rivers and their environs is central to deeper need: creation of a livable city in which <u>all</u> people can sustain families and pursue their dreams."

Paul Hawken, Founder of the Natural Capital Institute, author 'The Ecology of Commerce'



Provide a Human Face to Infrastructure



Necessity of Natural Infrastructure:

Majority of USPopulation is Urban PUBLIC HEALTH

- Social Equity/Environmental Justice
- Access to Recreation
 Nature Deficit Disorder
 - •Climate Resilient Communities
 - •Heat Island Mitigation
 - •Vector Control

•ENVIRONMETAL HEALTH

- •Air & Water Quality
- •Greenhouse Gas Uptake
- •Biodversity Protection
- •COMPLIANCE FEDERAL & STATE MANDATES
 - •Clean Water & Air Acts
 - •Ms4 Permits, Carbon
 - Drawdown
- •BEAUTY...CULTURE
- •EDUCATION/JOBTRAINING











Our State Engagements:

Funding from California Agencies

- State Parks
- Fire & Forestry
- Natural Resources/Strategic Growth Council/EEM
- Water Resources
- EPA
- Transportation
- SGR & Lower LA Rivers & Mountains Conservancy

*Cal Fed



THE EMERALD NECKLACE EXPANDED PLAN VISION



Los Angeles Basin's Biodiversity – Endangered species





BIGHORN SHEEP

(Ovis canadensis)

NORTHERN SPOTTED OWL (Strix occidentalis caurina)

OUNTAIN LION

(Puma concolor)

PALOS VENDES BLUE BUTTTERFLY (Glaucopsyche lygdamus palosverdesensis)

SANTA ANA SUCKER

(Catostomus santaanae)

ARROYO CHUB (Gila orcuttii)

Natural & Cultural Heritage & Diversity are linked!



Our Diverse Cultural Heritage = Los Angeles Basin's Strength

SUSTAINABLE RECREATION OPPORTUNITIES – Upper Watershed



First Peoples' Knowledge

Life along the River TONGVA





The Tongva/Gabrielino lived, for thousands of grass to make the different items they years, in the area that is now covered by Los Angeles County and parts of Orange County. dome shaped, and were made by bending They started each day with a prayer to bring and tying willow branches into the shape out the sun and bathed in the waters of the needed and river reeds and grasses were iver. Food was abundant and men chanted then attached as thatching. The domes while fishing and hunting, women sang while had one entrance and a "smoke hole" in they gathered plants, seeds, and shell fish, and the ceiling to let out the smoke from the children laughed while playing in the river. The the small fire that was used for light and sound of Shamans chanting in their sacred for keeping warm. house was ever present. If you listen closely, you can still hear the Shamans' chants in the

wind and their whispers in the water. TongvalGabrielino hunted and fished the sea people. Songs were sung and melodies in great red wood and pine blank canoes called were hummed to ensure the goodness Te-ott and fished along the shore using large of the food and to maintain the all important. tule canoes. They also crossed to the island areas to trade with their fellow Tongva who ose to inhabit the island areas.

They spent the months from spring to fall gathering food and preparing it for the rest of significance will forever be present. the year. They also gathered reads and

Rin Vista Park Emerald Necklace SiLos Angeles River

needed for daily life. Their houses were

Plants and animals could not be collected

or hunted unless prayers were made to ask the permission of the plant and animal

Tongva/Gabrielino, through their culture

and rituals, have marked an important

era in the history of this area and their

balance and connection in nature.













Ngangi, Daly River, NT



the timing of key events in the landscape and social, cultural and economic life – Woodward et al. 2012 Ecological Management and Restoration.

The small and large streams that flow into one another and form one River

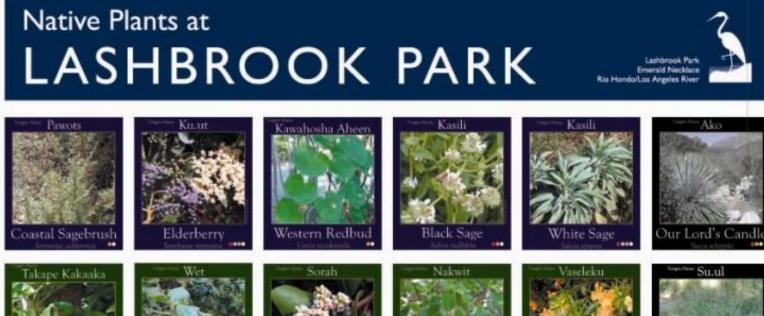
Te Awa Tupua is a singular entity comprised of many elements and communities, working collaboratively for the common purpose of the health and wellbeing of Te Awa Tupua.

Τε Ρου Τυρυς

The human face and voice of Te Awa Tupua

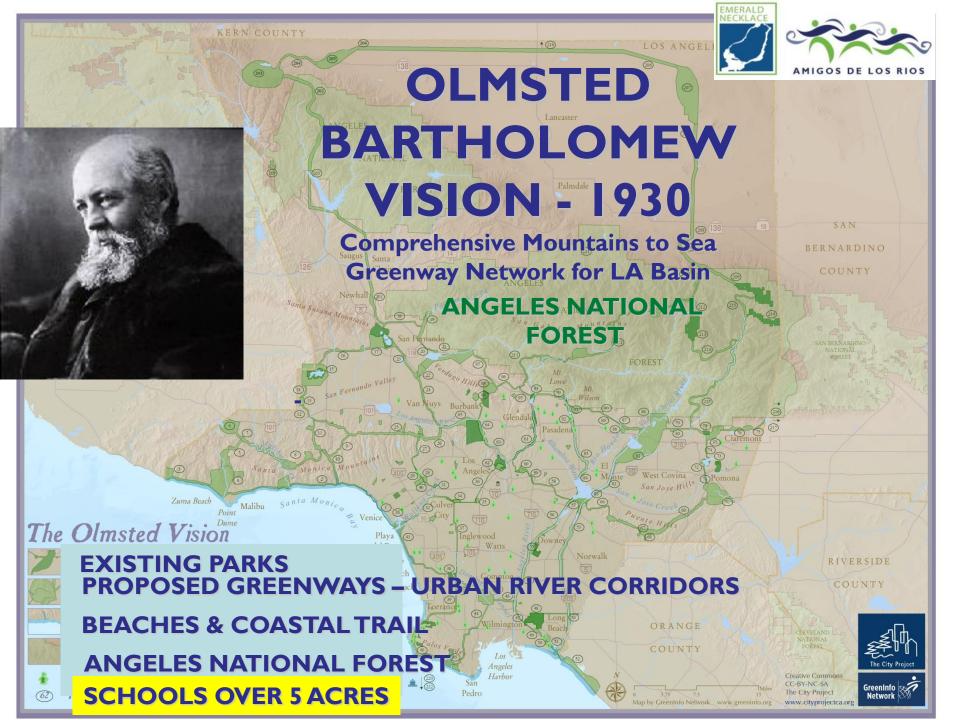




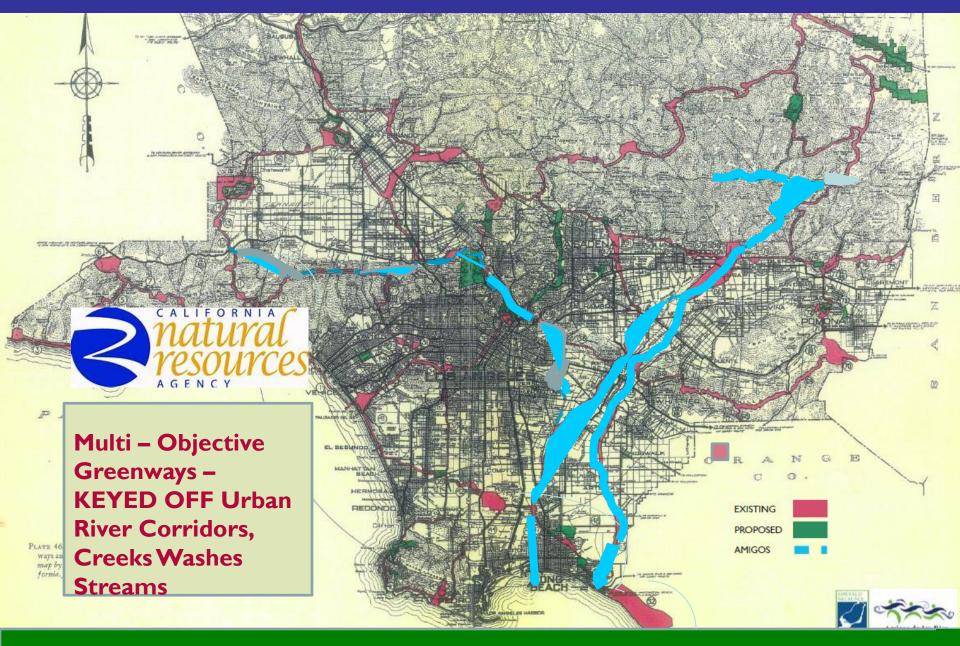




AMIGOS DE LOS RIOS



AMIGOS DE LOS RIOS MISSION - 'Mountains to Sea'



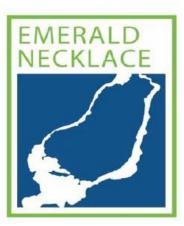
1930 OLMSTED BARTHOLOMEW PLAN FOR LA BASIN

Emerald Necklace



Overview: Green Infrastructure 38 Agencies Emerald Necklace Coalition – East County EMERALD NECKLACE COALITION MEMBER CITIES ANGELES NATIONAL

Coalition Members



Unincorporated Areas Hacienda Heights Homeowners Assoc. Workman Mills Road Homeowners Assoc. Park El Monte Improvement Assoc.

Environmental Organizations Charro Equestrian Joint Council Sierra Club

School Districts

Garvey School District El Rancho Unified School District Mountain View Unified School District El Monte Union School District El Monte City School District West Covina Unified School District

Coalition Member Agencies

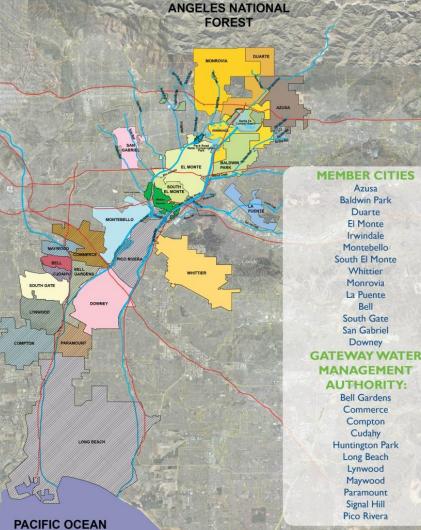
Azusa Baldwin Park Duarte El Monte Irwindale Montebello South El Monte Whittier Monrovia La Puente Bell South Gate San Gabriel Downey

Gateway Authority Bell Gardens Commerce Compton Cudahy Huntington Park Long Beach Lynwood Maywood Paramount Signal Hill Pico Rivera

County Agencies

Los Angeles County Board of Supervisors

State Rivers and Mountains Conservancy





Green Infrastructure – Linking Megaregions & Landscapes

Conservation Fund

A strategically planned and managed network of natural lands, working landscapes, and other open spaces that conserves ecosystem values and functions and provides associated benefits to human populations (Benedict & McMahon, 2006)



NETWORK DESIGN FOR SPECIES HABITAT WILDLIFE CORRIDORS COMPATIBLE WORKING LANDSCAPES

 GREENSPACE FOR WATER
 QUALITY AND SUPPLY

 GREENWAYS FOR RECREATION
 LOW IMPACT DEVELOPMENT

 URBAN FORESTRY
 STORMWATER MANAGEMENT

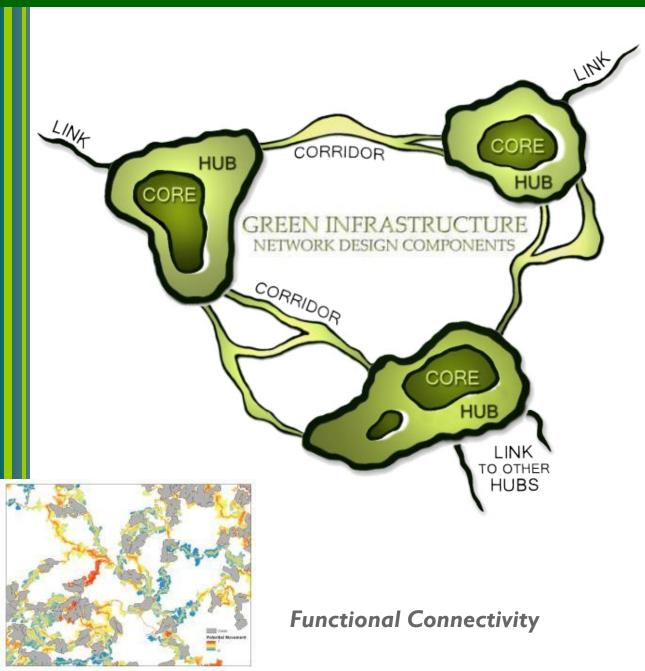
 WIRAL
 The Conservation fund
 URBAN

INF

REEN

GI Network: Protect | Restore | Connect

Conservation Fund



Cores:

- Contain fully functional natural ecosystems
- Provide high-quality habitat for native plants and animals

Hubs:

 Slightly fragmented aggregations of core areas, plus contiguous natural cover

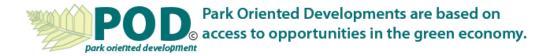
Corridors:

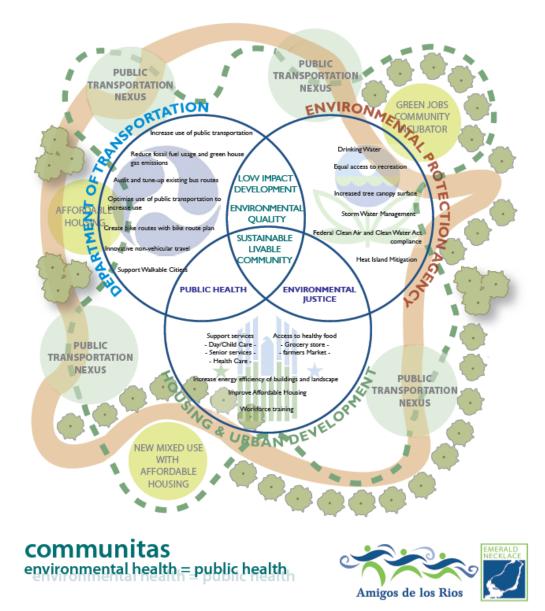
- Link core areas together
- Allow animal movement and seed and pollen transfer between core areas

Sites:

 Important microhabitats not captured by network thresholds and criteria anisote los Ries 30 **Evolution** of our Metropolitan Regions

Morphogenesis biological process that Causes organism to develop its shape.









NATURAL INFRASTRUCTURE

Green Infrastructure Vision LA BASIN

REGIONAL GOALS

REGIONAL GOAL

Δ

5

8

- Promote Active Transportation Walking, Biking, and Alternative Commute Options
- 2 Create Functional and Multi-Purpose Natural (Green) and Built (Grey) Environment Networks
- 3 Improve Public Health by Expanding Access to Nature and Outdoor Recreation
 - Treat Water as a Multi-Benefit Amenity
 - Design and Build Communities Resilient to the Current and Projected Impacts of Climate Change
- 6 Enhance Regional Anchors for People and Wildlife
- Support Environmental Awareness and Civil Engagement through Education, Outreach, and Cultural Heritage
 - Foster a Green Economy that Creates Jobs and Encourages Investment in Local Multi-Benefit Projects

COMMON VISION

- 1 An interconnected network of walking and biking trails, from forest to ocean
- 2 Interconnected and complementary green and grey infrastructure networks
- 3 A nature-based network of recreation facilities that promotes public health, social justice and equity
- 4 A water network that infiltrates groundwater, manages wet weather events and provides human enjoyment
- 5 Communities resilient to changing water supplies, climate extremes and sea level rise
- 6 A linked network of open space treasures from the Mountains to the Sea
- A network of culturally aware and civically involved communities that support conservation, restoration and recreation
- 8 A robust and sustainable local economy that produces new economic opportunities around a growing green infrastructure

TOWARDS A COMMON VISION



ENHANCE REGIONAL ANCHORS MAP

This map depicts the existing natural areas within the Expanded Emerald Necklace. These valuable spaces are connected through the river network, which links these open spaces together and allows wildlife habitat connectivity, making these resources invaluable to Los Angeles County.

LEGEND

Emerald Necklace Greenway along Rivers/ Washes/Creeks

Proposed San Gabriel Watershed & Mountains Permanent Protections

Proposed Rim of the Valley Corridor



Santa Monica Mountains National Recreation Area

Major Regional Anchors

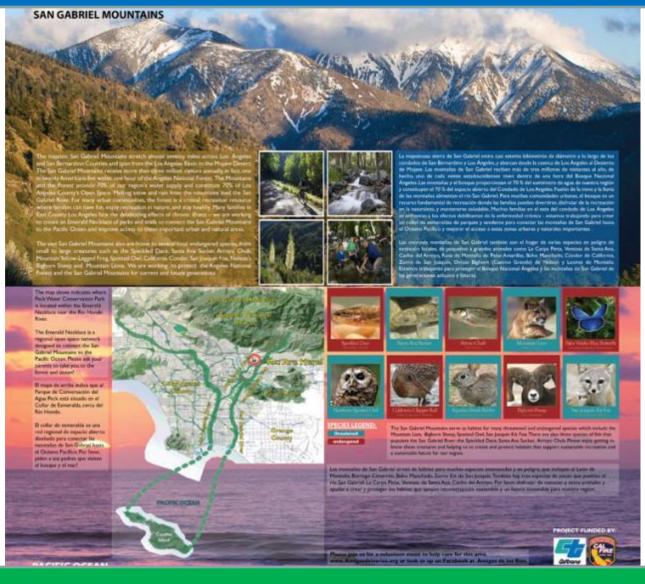


💁 Pacific Crest Trail



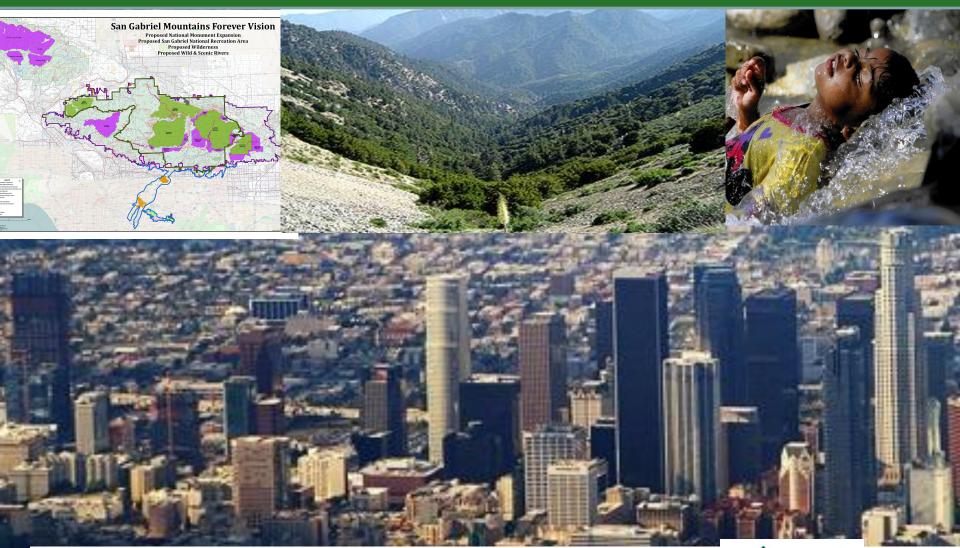


Mountains to Sea



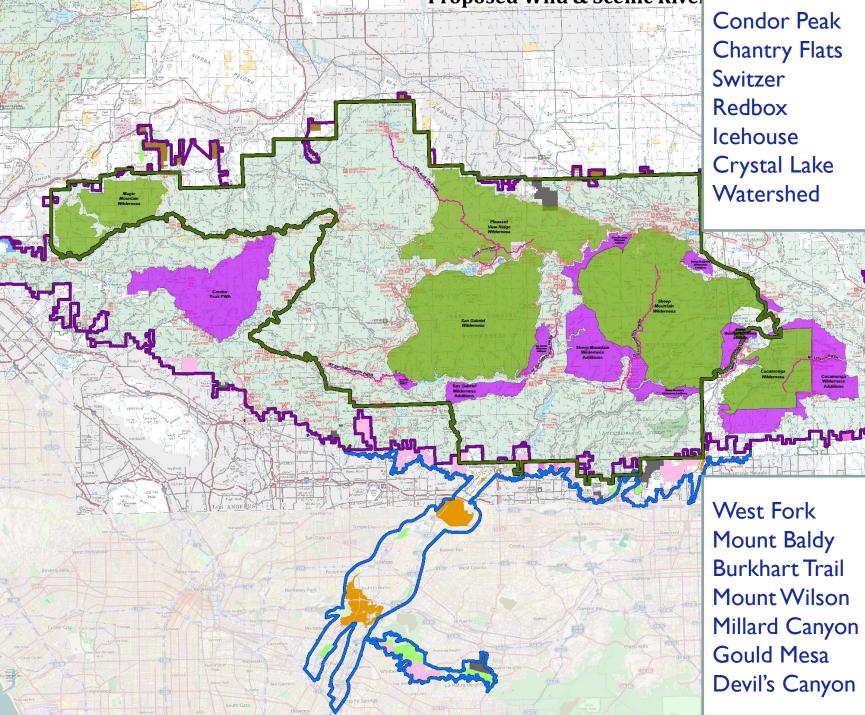
Public Realm, Environment, Water & Infrastructure Committee

Connecting Public Lands to Urban Residents



1 in 20 Americans live w/in 1 hour of the San Gabriel Mountains National Monument

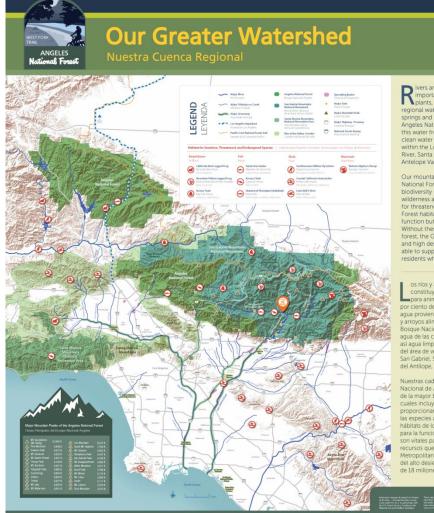




Condor Peak Chantry Flats Switzer Redbox Icehouse Crystal Lake Watershed

West Fork Mount Baldy Burkhart Trail Mount Wilson Millard Canyon Gould Mesa Devil's Canyon

Our Greater Watershed



Rivers and streams in our forest are an mipportant source of water for wildlife, legional water supply comes from mountain springs and streams fed by snowmelt. The Angeles National Forest filters and regulates this water from upper watersheds, providing clean water to communities and habitats within the Los Angeles River, San Gabriel River, Santa Ana River, Santa Clara River, and Antelope Valley watersheds, among others.

UAS

Our mountain ranges and the Angeles National Forest contain some of the greatest biodiversity in the county, including five wilderness areas that provide critical habitat for threatened and endangered species. Forest habitats are not only key to ecological function but also vitat to human health. Without these resources provided by the forest, the Greater Los Angeles Metro Area and high desert communities would not be able to support the more than 18 million residents who live here.

Lo sríos y arroyos de nuestro bosque constituyen un importante recurso de agua para animales, plantas y personas. Treinta por ciento de nuestro suministro regional de agua proviene de los manantiales montañosos y arroyos alimentados por el deshielo. El Bosque Nacional de Angeles filtra y regula esta agua de las cuencas superiores, suministrando así agua limpia a las comunidades y hábitats del área de vertientes de los rios los Ángeles, San Gabriel, Santa Ana, y Santa Clara del Valle del Antilope, entre otros:

Nuestras cadenas montañosas y el Bosque Nacional de Angeles contienen parte de la mayor biodiversidad del país, las cuales incluyen cinco áreas naturales que proporcionan un hábitat muy importante para las especies amenazadas y en peligro. Los hábitats de los bosques no solo son claves para la función ecologica, sino que también son vitales para la salud humana. Sin estos recursos que nos da el bosque, el Área Mayor hétropolitana de Los Ángeles y la comunidad del 18 milloneto no podría soportar a los más el 18 milloreto no podría superior aquí.



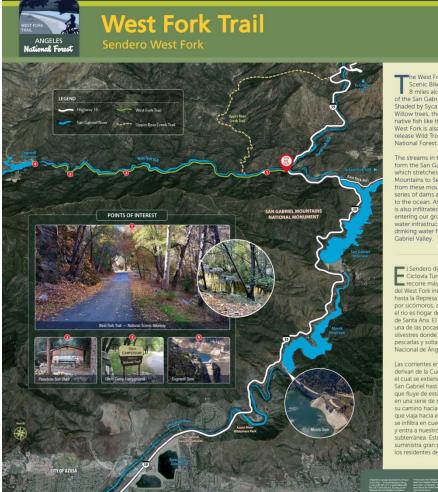
West Fork

Upper Watershed



Improved CONNECTIONS to Forest

Trail Features and Area Highlights



The West Fork Trail is a National Semic Bikeway that runs more than 8 miles along the lower West Fork Shaded by Sycamore, White Alder, and Willow trees, the river is home to rare native fish like the Santa Ana Sucker. The West Fork is also one of the few catch and release Wild Trout Streams in the Angeles National Cercu

UAS

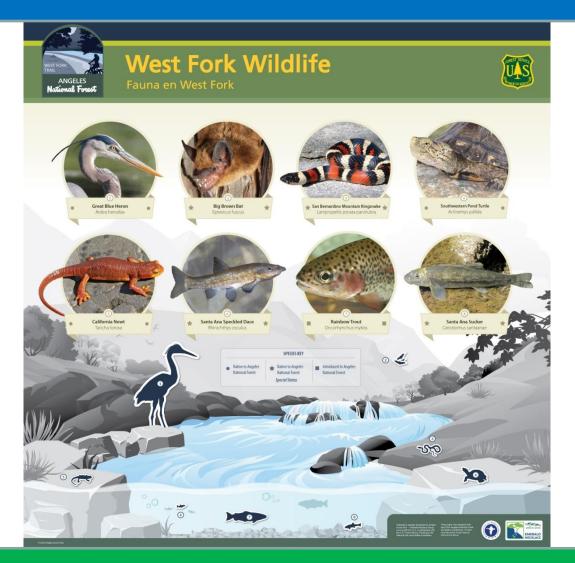
The streams in this part of the forest help form the San Gabriel River Watershed, which stretches from the San Gabriel Mountains to Seal Beach. Water draining from these mountains is held back by a series of dams and reservoirs on its way to the ocean. As it travels south, the water is also infitrated into speading basins, entering our ground water suppy. This water infrastructure provides much of the drinking water for residents of the San Gabriel Valley.

Elsendero de West Fork es una Ciclovia Turística Nacional que recorre más de 8 milias a lo largo del West Fork inferior del RIO San Gabriel hasta la Represa de Cogswell. Sombreado por sicómoros, alisos blancos y sauces, el río es hogar del raro pez nativo lechón de Santa Ana. El West Fork también es una de las pocas corrientes de truchas silvestres donde se practica el deporte de pescarlas y soltarlas, situada en el Bosque Nacional de Angeles.

Las corrientes en esta parte del bosque se derivan de la Cuenta del Rio San Gabriel, el cual se extiende desde las Montañas San Gabriel hasta Seal Beach. El agua que fluye de estas montañas se retiene en una serie de represas y embalses en su camino hacia el océano. A medida que viaja hacia el sur, el agua también se inflitra en cuencas que se difunden y entra a nuestro suministro de agua subterránea. Esta infraestructura aculífera suministra gran parte del agua potable a los residentes del Valle de San Gabriel.

San Gabriel River - West Fork

Flora and Fauna



San Gabriel River - West Fork

Fire Ecology



San Francisquito Canyon

URBAN RIVER GREENWAY



EMERALD NECKLACE

GIBSON MARIPOSA PARK

PARK





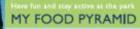
AY/EXERCISE AREAS























































WORKING IN THE WATERSHED.

be part of the



Apply through: Felicia Vann **Recruitment and Training** Los Angeles Conservation Corns 3655 South Grand Avenue, Suite 280 Los Angeles, CA 90007 Tel. 213.747.1872

Fill out an application and mail to:

3244 Santa Anita Ave Altadena CA 91001

Applications are available online at:

www.amigosdelosrios.org

Term Dates: 1st Term 11.1.2006 - 1.30.2007 2nd Term 3.12.2007 - 6.12.2007

* LIMITED AVAILABILITY

Information will be provided on continuing education and job opportunity in the environmental secto © Amigos de los Rios 2006, all rights reserved



atershed Management **Urban Planning** Park Design **Public Art Park Construction Community Outreach** Park Maintenance **Computer Training**

is funder







A special thanks to the following California Conservation Corps, Los Angeles Conservation Corps, and San Gabriel Valley Conservation Corps Members who have built Lashbrook Park for the senelis of current and future generations.

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AMIGOS DE



Examples of Bioswales and Native & Drought-Tolerant Plantings by Amigos de los Rios



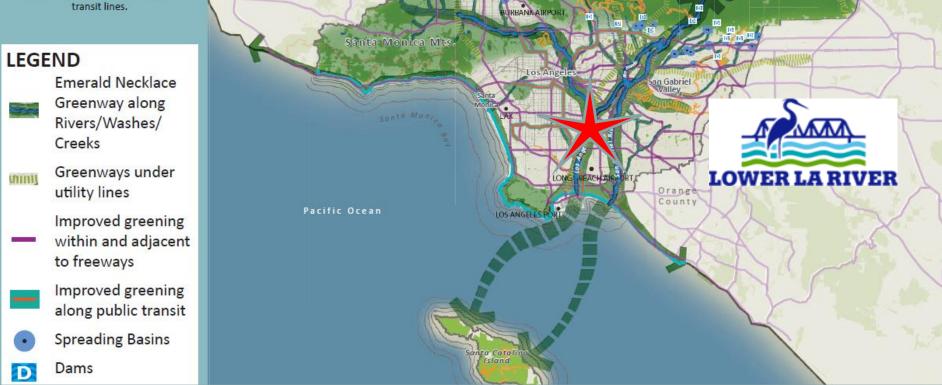






GREEN AND GREY INFRASTRUCTURE MAP

This map depicts existing grey infrastructure that we propose be greened and utilized. We propose to use the residual spaces underneath the utility lines to create greenways and natural areas. We can also improve the greening surrounding the freeways and public transit lines.



Lancaster

San Cabriel Mountains

Ingeles National

Fores

San Bernandino County

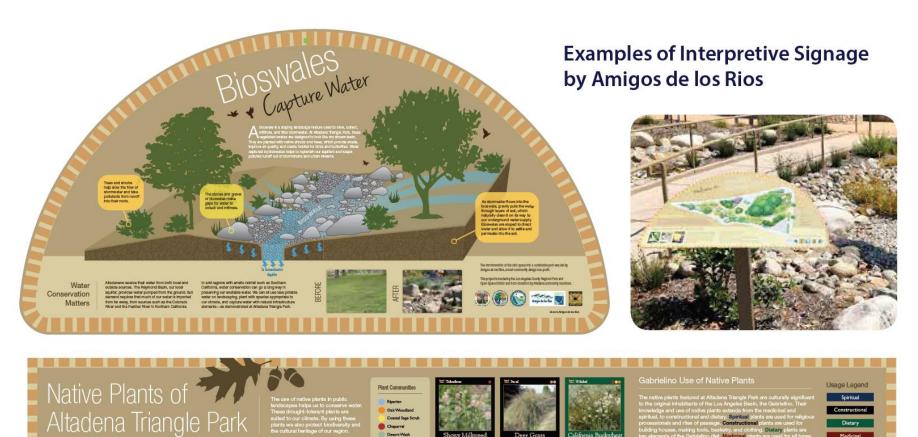
Kern County

Ventura County

Angeles National

Forest























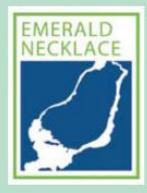


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Emerald Necklace Green Infrastructure | Los Angeles County

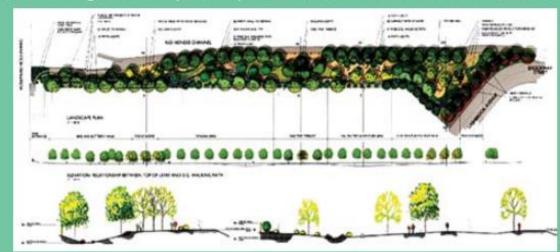
-A RIVER TRAIL ENHANCEMENT, EL MONTE



www.amigosdelosrios.org | 908 E Altadena Dr | Altadena, CA 91001 | t: [626] 791.1611 | f: [626] 791.1771



ACRES: 1.8 FUNDER: San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy, Proposition A Supervisor Gloria Molina DATE/COST: 2006 / \$370K PROJECT TEAM: Amigos, Bob Perry, The City of El Monte and the SGVCC, LACC and CCC



>greenway









AMIGOS DE LOS RIOS - EMERALD NECKLACE GROUP

BEFORE





















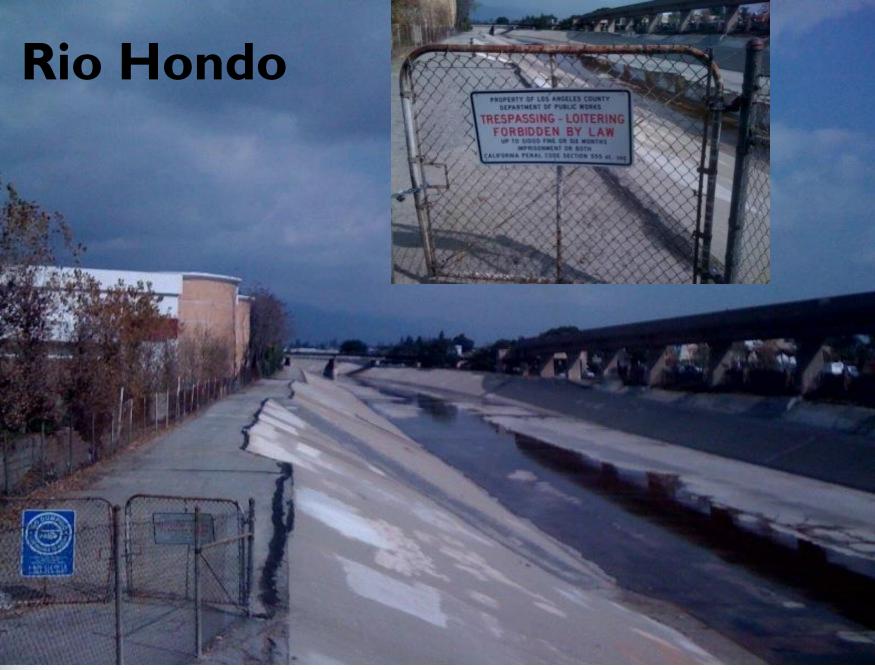
LASHBROOK PARK

>lashbrook park







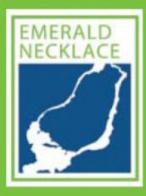


Rio Hondo Flood Control Channel



Emerald Necklace Green Infrastructure | Los Angeles County

RIOVISTA PARK & TRAIL





📩 www.amigosdelosrios.org/908 E Altadena Dr/Altadena, CA 91001/t:[626]791.1611/f:[626]791.1771



ACRES: 4.2

FUNDER: San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy, Proposition A Supervisor Gloria Molina, Land and Water Conservation Funds Recreation Trail Grant and City of El Monte DATE/COST: 2008 / \$2.3 million PROJECT TEAM: Amigos with VCA Engineering, Bob Perry, Bret Goldstone and Terra Form Constuction, SGVCC, LACC and CCC



>multi-benefit park



AMIGOS DE LOS RIOS - EMERALD NECKLACE GROUP





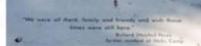












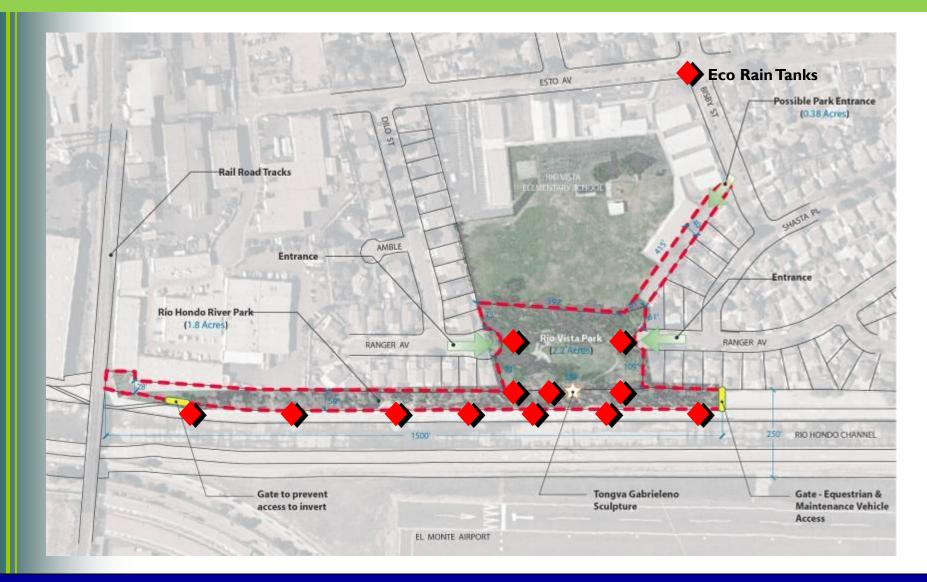






Rio Vista Park





Water Resources: Conservation, Infiltration





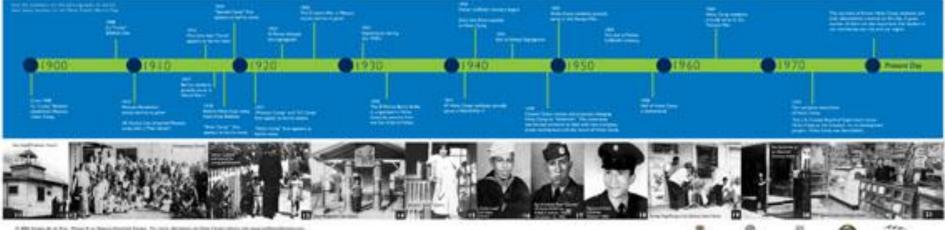
La Historia Society





HICKS CAMP The History of

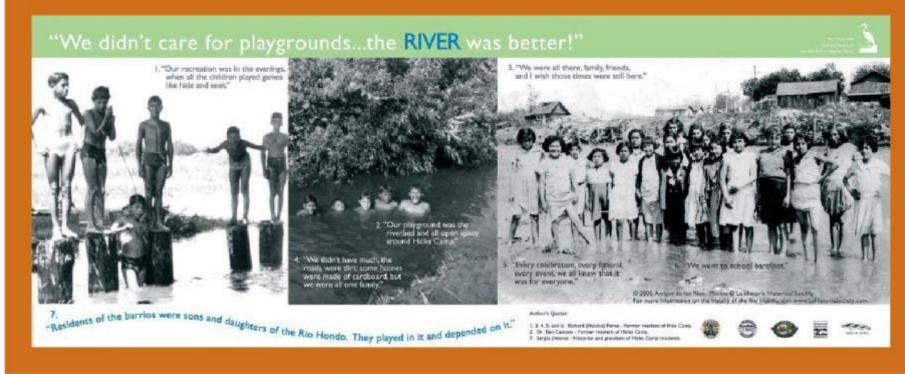






regional signage system





CELEBRATE Natural & Cultural HISTORY

Rio Vista Park Respect for Diversity Cultural Heritage



ACRES: 4.2 FUNDER: RMC, Prop A Gloria Molina, Land and Water Conservation Funds, Recreation Trails Grant, City of E Monte DATE COMPLETE: 2008 COST: \$2.3 Million PROJECT TEAM: City of El Monte, Amigos de los Rios, VCA Engineering, Bob Perry, Bret Goldstone, Terra Form Construction, SGVCC, LACC, CCC.





The Rio Hondo is a **seasonal** river and is especially **powerful** during periods of excessive rain. It is important to know that the Rio Hondo is also quite dangerous even when there is not much water in the channel. The smooth, trapezoidal shape of the channel forces the water to move with great **force**. As the sides and bottom of the channel are slippery, it is very difficult to escape the strong current of the **river**. Be cautious - the river has an awesome **power** at all water levels. The Rio Hondo did not always look as it does today. Until the river was concreted in the 1950s, the Rid Hondo offered extensive areas to farm, walk, ride horses, play, and swim. The **braided streams** of the rive meandered through the area, **enriching** the soil with **rich** sediment from the San Gabriel Mountains. Chan nelling the river did prevent the area from flooding, but it also took away the valuable **recreational** space along the river banks. **Rio Vista Park** gives a piece of the Rio Hondo's original green space back to the communities and people of El Monte.





From top: El Monte youth using the Rio Hondo as a recreational space (© La Historia Historical Society); view of the damage done to the bridge leading to downtown El Monte affect the flood of 1914 (© El Monte Historical Society) Background image: 1941 aerial of the Rio Hondo's braided streams (© UCLA Geography Archive)

The human body is made out of approximately 55% to 60% water, so make sure you drink plenty of water while on the trail.

Historic Photo of the Rio Hondo



© 2006 Amigos de los Rios

Gibson Mariposa Park Respect for Children's Vision

ACRES: 4.3 FUNDER: RMC, Prop A Gloria Molina, State Urban Parks Grant, City of El Monte, Roberti-ZIBerg

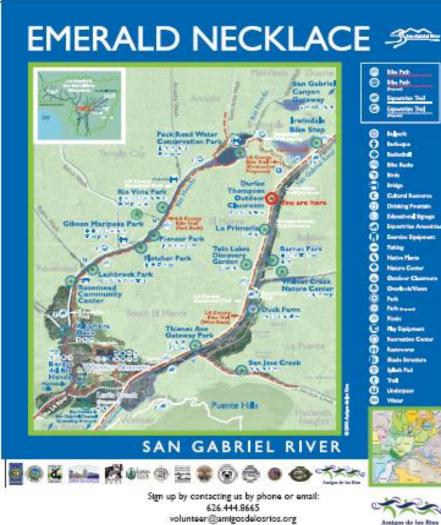




'Multi Benefit' Project Components

Amigos de Los Rios needs your help!

We have volunteer opportunities at various parks and sites along the Emerald Necklace. Be a part of making the Emerald Greenway a reality. This would be a great opportunity for families to get outside to do some good for th environment and their communities. If you have questions, we'd like to hear from you.







El Collar Esmeralda

El Collar Esmeralda es una visión de una 17 milla cadena de interconectados senderos, parques y caminos verdes tocando a 17 ciudades y casi la mitad de un millón de residentes a lo largo de los Río Hondo y San Gabriel Ríos. La cadena de senderos va conectar 1,500 acres de parques, terrenos abiertos y corredores de hábitat, al mismo tiempo históricamente conectando los ríos de Río Hondo y San Gabriel. El multi-beneficial sistema de parques y senderos va ofrecer crítica oportunidades recreacional y fomentar la salud del público.

Proyecto Detalles: (A un vistazo)

Herencia de Naturaleza y Cultura: Con restauración de hábitat, el carácter original de la tierra y las comunidades del pasado regresan a vida. Las historias de los Latinos, los barrios y los Americanos Nativos están presentes. Esto ofrece a generaciones del pasado y futuro una vislumbre del pasado.

Oportunidades de Recreación y la Salud Publica: El collar Esmeralda ofrece muy importante y necesario oportunidades de recreación para residentes sufriendo de enfermedades crónicas como hipertensión, asma, diabetes y obesidad. También crea alternativas corredores de transportación con oportunidades para caminar y andar en bicicleta para trabajo o la escuela.

La Salud y Restauración del Medio Ambiente: La restauración del medio ambiente y la salud del medio ambiente van mano y mano. Limpiando áreas afectados con quemadura y haciendo restauración de hábitat ayuda a mejorar la salud de los ecosistemas biológicos interconectados.

Biodiversidad Urbana y Hábitat Restauración: Restauración de hábitat ofrece una plataforma para el desarrollo de Biodiversidad Urbana, reforzando el nativo flora y fauna.

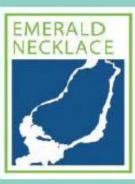
Acceso a Naturaleza/Multi Modal Aprendiendo para Jóvenes Margi-

nados: Escenas naturales forman lugares muy dinámicos donde podemos aprender y esto se ha conectado muy fuerte con mejor funcionamiento en la escuela. Salones de la escuela afuera crean una conexión dentro de los jóvenes de la a cuidad y la naturalaza.

Instrucción de Trabajo Para Jóvenes: El Amigos de los Ríos 'Green Jobs Corp' programa no solamente es para crear trabajos en una economía que lo necesita, pero también da a los jóvenes las habilidades y experiencia para entrar a los trabajos del nuevo y creciendo verde economía. Gestión de Recursos de Agua: El plantando de árboles a lo largo de la Collar Esmeralda ofrece un viable sistema de la gestión de tempestad agua—un árbol intercepta 3,000 galones de lluvia cada año. Además, los proyectos a lo largo de la Collar Esmeralda de agua, y también animan conservación por utilizando practicas sostenibles de panorama.



Emerald Necklace Green Infrastructure | Los Angeles County PECK RD. WATER CONSERVATION PARK -QUARRY REDEVELOPED



908 E Altadena Dr Altadena, CA91001 [t:[626] 791.1611 [f:[626] 791.1771 www.amigosdelosrios.org |



- Created 540 linear foot bioswale
- Created 350 linear foot decomposed granite trail
- Removed subterranean concrete from former quarry
- Total trees planted to date 240
- Total shrubs planted to date 1,611
- Total trees planted to date 8,712







AMIGOS DE LOS RIOS - EMERALD NECKLACE GROUP

BEFORE







PECK PARK













Emerald Necklace Nature Trail







Mountains to Sea

SAN GABRIEL MOUNTAINS



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The map above indicates where Pack Weser Conservation Park in Recard within the Description Machines over the Rei Horale

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PACIFIC OCEAN











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Emerald Necklace Nature Trail



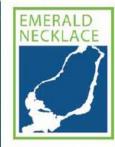


EMERALD NECKLACE FOREST TO OCEAN EXPANDED VISION PLAN:



Towards a Common Vision





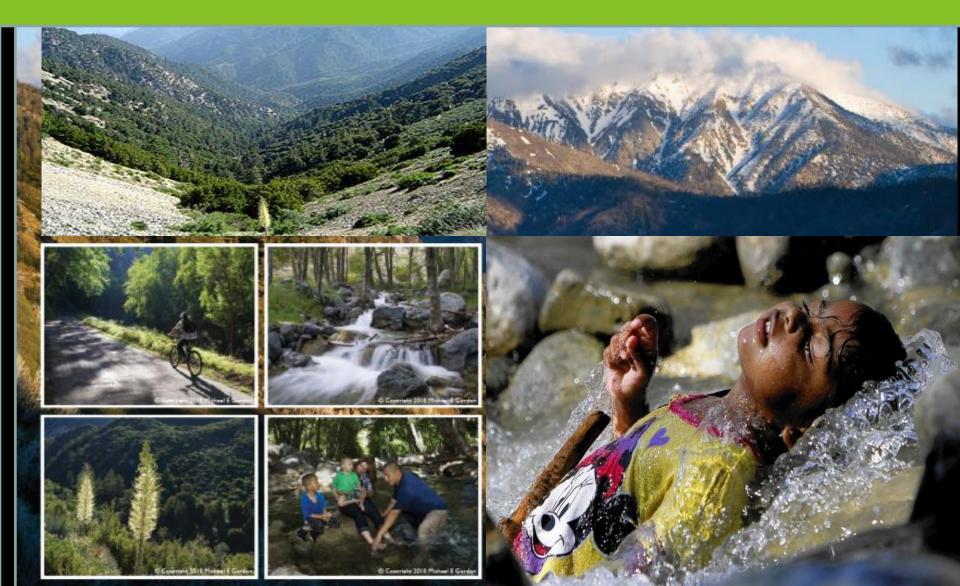
Conservation Fund

© 2014 Amigos de los Rios

The Emerald Necklace Forest to Ocean Expanded Vision Plan: Towards a Common Vision Funded by: The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 Proposition 84 and the State of California Strategic Growth Council



Connecting Students to Greater Watershed – San Gabriel Mountains /Urban Rivers to Ocean



The Health Benefits of Urban Greening

Urban Greening Improves Physical Wellness

Urban green staces encourage exercise and are a more restorative environment than indoor settings

Green spaces provide necessary places and opportunities for physical activity. Exercise improves cognitive function, learning, and memory.

In a study, residents of areas with the highest levels of greenery were three times as likely to be physically active and 40% less likely to be overweight or obese than residents living in the least green settings. ³

Childhood asthma rates are the highest in parts of the city where tree density is the lowest. *



Urban Greening Improves Mental Wellness

The expenence of nature helps to restore the mind from the mental fatigue of work or studies, contributing to improved work performance and satisfaction.^{25,1}

People who visit green spaces for 30 minutes or more a week have lower rates of depression and high blood pressure.⁶

Even brief glimpses of natural elements improve brain performance by providing a cognitive break from the complex demands of urban life.⁵

Urban nature can provide calming and inspiring environments and encourages learning, inquisitiveness, and alertness.^(b)



Urban Greening Improves Academic Performance

Memory performance and attention span improve by 20 percent after spending an hour interacting with nature.¹³

Symptoms of ADD in children can be reduced through activity in green settings, thus "green time" can act as an effective supplement to traditional medicinal and behavioral treatments.²³⁰³⁵

Nature experiences are important, for encouraging imagination and creativity, cognitive and intellectual development, and social relationships.^{10,710}

College students with more natural views from their dorm windows scored higher on attention tests and rated themselves as able to function more effectively.¹⁹

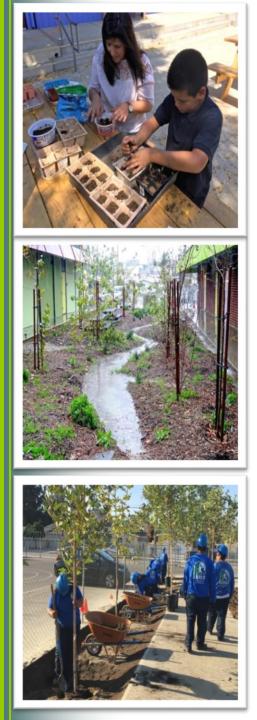


Physical Fitness Greater Variety of Opportunities

Mental Health Anxiety Reduction Mindfulness & Focus

Immersive Lessons Campus as Living lab Outdoor Learning Opportunities





Monrovia Unified School District Campus Green Infrastructure Development Project Measure W Safe Clean Water





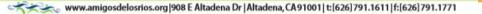
EMERALD NECKLACE GREEN SCHOOLS

DURFEE-THOMPSON SCHOOL JOINT USE PROJECT, EL MONTE JOINT USE TRAIL





MADRID EXERCISE & NATURE TRAIL JOINT USE PROJECT, EL MONTE





>Outdoor Classroom



lucational Signage





> amenities

>Therapy Area



>Nature Trail













www.amigosdelosrios.org/908 E Altadena Dr/Altadena, CA91001 |t: [626] 791.1611 |f: [626] 791.1771









"This book is an absolute must-read for parents." - The Boston Globe

Last Child in the Woods

Saving Our Children from Nature-Deficit Disorder

Children NeedTime Outdoors

American Children spend 9 minutes on aver age

outdoors



CONNECTING URBAN STUDENTS TO NATURE

Children & Nature Network

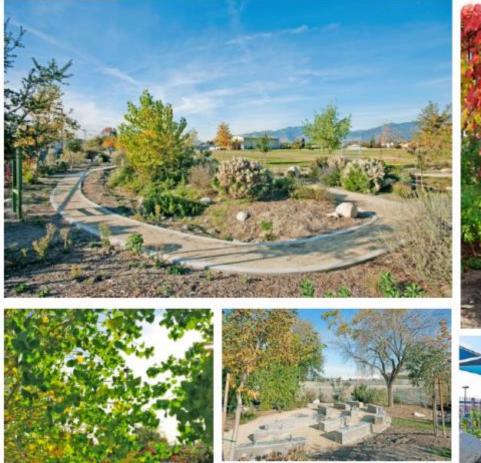




AMIGOS DE LOS RIOS - EMERALD NECKLACE GROUP

BEFORE













DURFEE THOMPSON SCHOOL JOINT USE PARK





The Jeff Seymour Family Center (JSFC) is community hub for families providing comprehensive programs to promote overall family wellness. Administered by the El Monte City School District, the JSFC unites the county and community to strengthen individual, family, and neighborhood protective factors and increase social connectedness, community mobilization, and access to needed support and services. The Jeff Seymour Family Center Green Infrastr was designed and developed by Amigos de los (3), in partnership with the El Monte City School and community stakeholders. Amigos de los R expertise in sustainable and community-based includes youth training programs, environment and community outreach.

> Funding for this project h Gas Reduction Fund thir Rire Protection (CAL Fiel Additional funding provid Mitigation Program throu Resources, and from RE

Jeff Seymour Family Center Green Infrastructure Campus



NATURAL INFRASTRUCTURE

-

© 2017 Amigos de los Rice

Jeff Seymour Family Center

Green Infrastructure Campus

10900 Mulhall Street El Monte, CA 91731





Fire Protection (CAL FIRE), Urban and Community Forestry Program.

C Amigos de los Rios

The Emerald Necklace







The Jeff Seymour Family Center is part of the Enerald Hecklace, an interconnected loop of parks and greenways along our urban waterways. Nested in the aut of the San Gabriel Valley and extending from the San abriel Mountaris of the Angeles National Forest down to be Pacific Coean, the necklace provides desperately needed creational areas for communities suffering from health hallenges and social issues associated with a tack of open acce and receation opportunities. Since 2003, Amgoe I los Rios, a non-profit 501(c) 3, has worked as a liaison stween the community and public agencies to facilitate the plaborative vision known as the Emerald Necklace.

I.-Jeff Saymour Family Center as parte del Emerald Nectione, un circuito interconactado de paques y vitas verdes al lado de nuestros nos urbanos. Situado en el corazón del San Gabriel Valley y extendendo desde las Montañas de San Gabriel Valley y extendendo desde las Montañas de San Gabriel Valley Neckace tree áreas recentivas deseperadamente necesarias para las comunidades que suiten de problemas de salud y problemas sociales asociados con la rata de especio abiento y oportunidades de recención. Desde 2006, Amigos de los Rios, un non-pront 50 (ijo), ha trabajedo como facilitador de la comunidad y las agencián pode tables do para facilitador de la comunidad y las gencies públicas para facilitador de la comunidad y las gencies públicas para facilitador de colaborativa conocido como el Emerald Neckace.

「簡単加加」Emergial Neckland 最終者種的「純市方式的公別的原因的問題。 它位于當當成山谷の中心時時、自己打包山根本科公園的主要者」出版を有面面 能力上中不、加拿加加工作用的小式合われ合われ合い。中型的有 可能はおける目的別でに受けていたはならが利用の利用所有。方式一面構 解認定時中心(Leff Seymetr Family Canter) 書 注意時間的「第一部5、Anigo De Lochour 作力 一个目前的時間、最大公的年少年、在方子開発者、村田、し入 「開き方」所 推進可加。別は本市へ1200年的時間に、当時文明的11-2017年 「調整可加」手術を引いた。「新生活」を注意的なの知識が可用。





Amigos de los Rios and the Emerald Necklace

The mission of Amigos de los Rios is to create an Emerald Necklace green infrastructure network of parks and trails throughout the Los Angeles Basin to connect the Mountains to the Sea, and in doing so, improve access to recreation and link Southern Californian communities to nature and each other, expand access to safe non-vehicular transportation, create culturally meaningful public spaces within blighted communities, and protect urban communities from the harmful effects posed by climate change. The Amigos design team has extensive expertise in regional sustainable planning, architecture, landscape architecture, habitat restoration, environmental education, and cultural history.



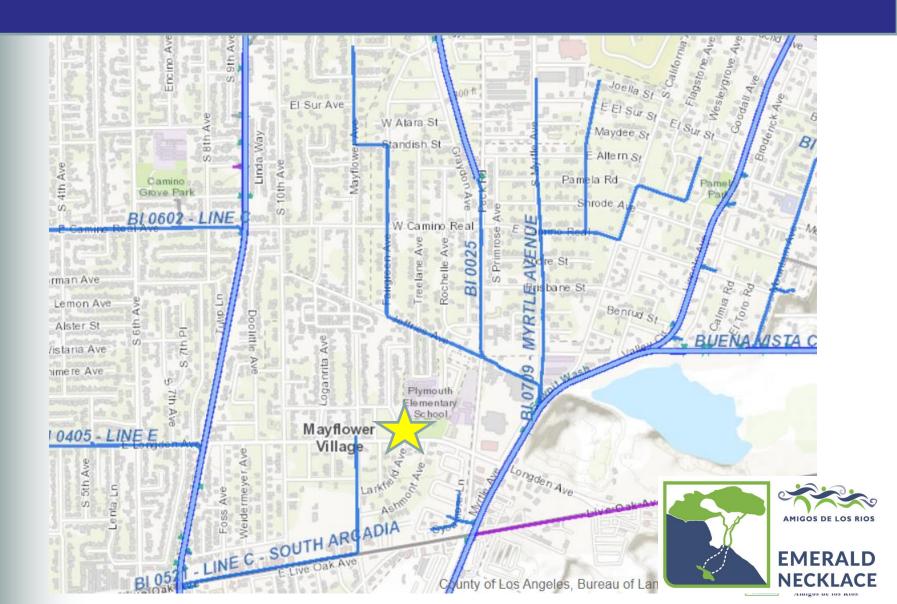




PLYMOUTH ELEMENTARY

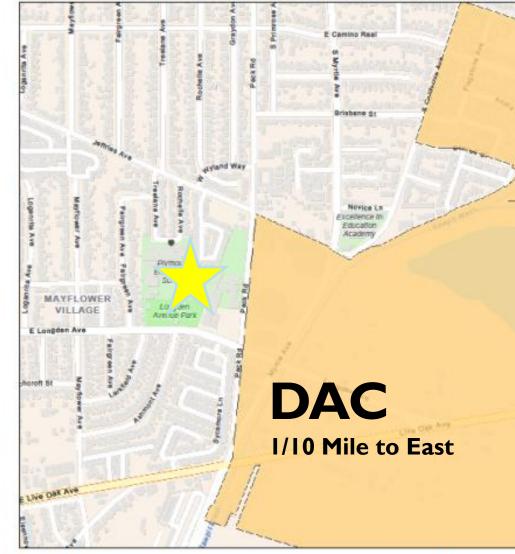


STORM DRAIN SYSTEM





Plymouth Elementary School



12/14/2019, 4:26:05 PM

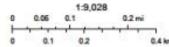
California Counties

Disadvantaged Communities - Places 2016

Data Not Available

Severelf Disadvantaged Communities (WHI < \$38,270)

Disadvantaged Communities (\$38,270 - MHI- \$61,026)



U.S. Geneva Bureau Context gla@evier.or.gov, U.S. Bureau Rectamation, California Department of Comenvation, California Depart and Flah and Garen, California Department of Flowesty and Flow Polas National Conserts and Atmospheric Administration, Roumine Est, Hi

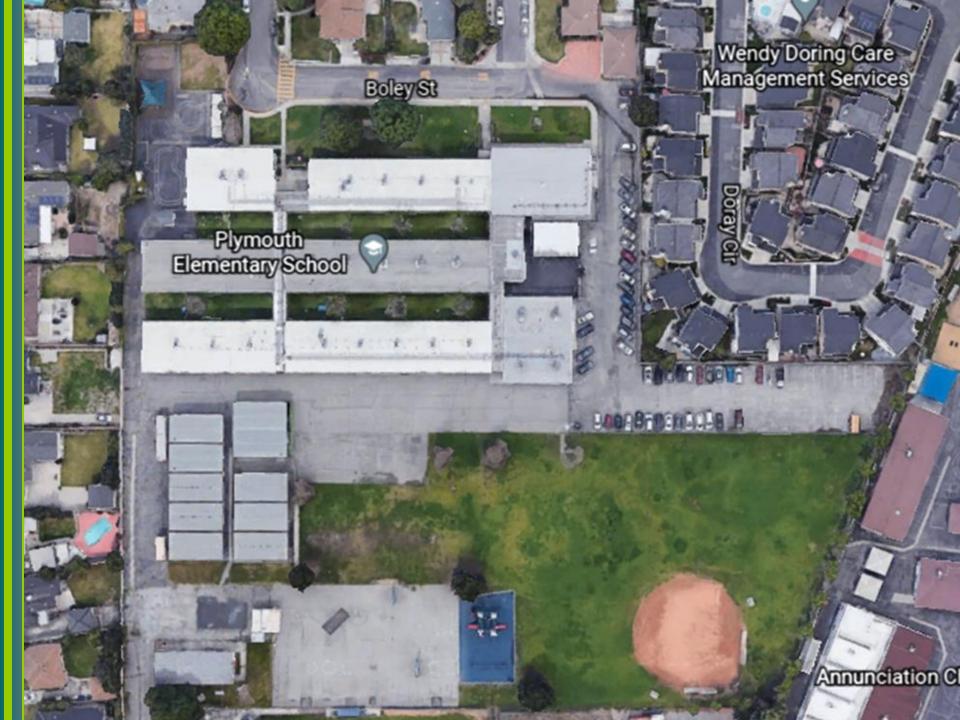




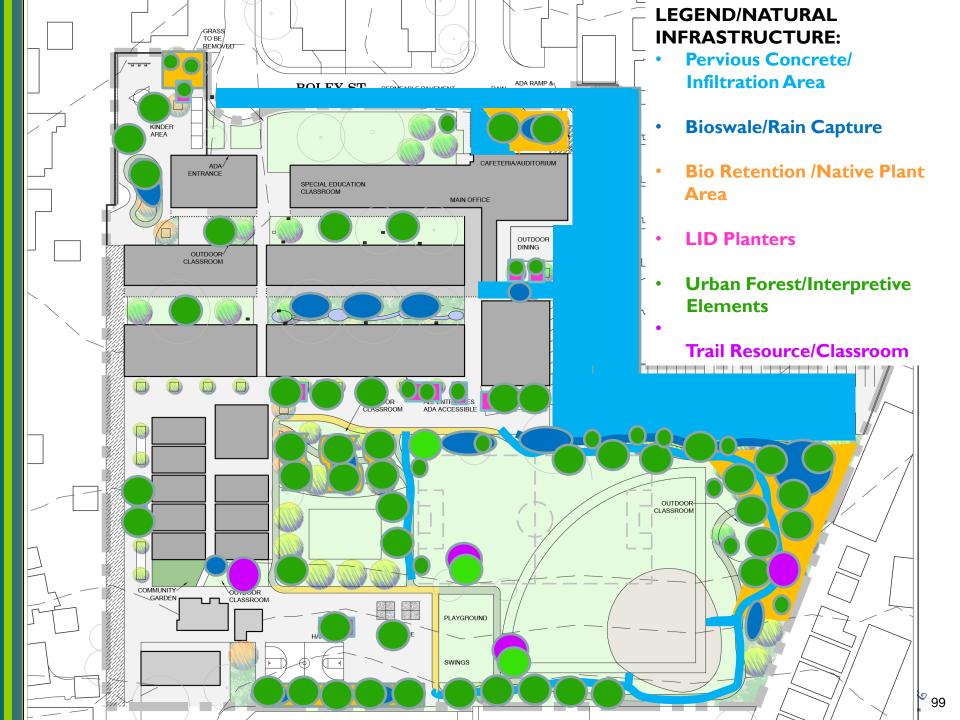
Some Parents refuse to let their children be outdoors on campus

Some Parents come to treat mosquito bites during lunch

By francok35 (Unknown Year) https://pixabay.com/get/g69a3791161f9c62c874e4ebb6bd3e212fa91ce6f48dd73cd20963eef8ab9df16d92b5f1663c1a0da9676069f8884c80f_1280.jpg Free for Most Commercial Use / No Attribution Required / See https://pixabay.com/service/license/ for what is not allowed Photo Attribution by PhotosForClass.com







Connecting School to Forest



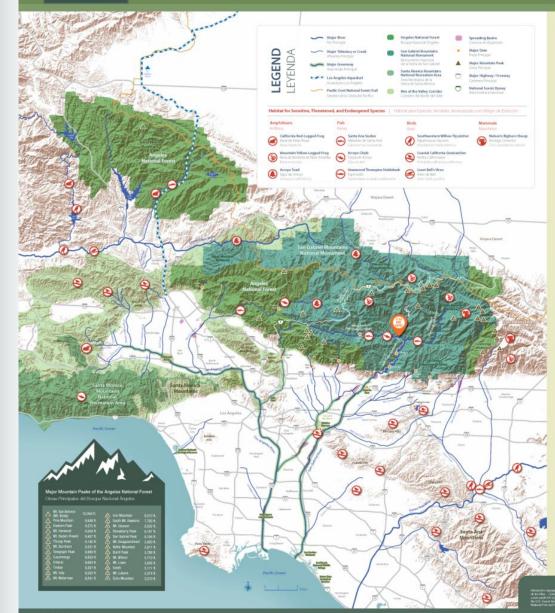
Angeles National Forest



Our Greater Watershed



Nuestra Cuenca Regiona



Rivers and streams in our forest are an important source of water for wildlife, plants, and people. 30 percent of our regional water supply comes from mountain springs and streams fed by snowmelt. The Angeles National Forest filters and regulates this water from upper watersheds, providing clean water to communities and habitats within the Los Angeles River, San Gabriel River, Santa Ana River, Santa Clara River, and Antelope Valley watersheds, among others.

Our mountain ranges and the Angeles National Forest contain some of the greatest biodiversity in the country, including five wilderness areas that provide critical habitat for threatened and endangered species. Forest habitats are not only key to ecological function but also vital to human health. Without these resources provided by the forest, the Greater Los Angeles Metro Area and high desert communities would not be able to support the more than 18 million residents who live here.

os rios y arroyos de nuestro bosque constituyen un importante recurso de agua para animales, plantas y personas. Treinta por ciento de nuestro suministro regional de agua proviene de los manantiales montañosos y arroyos alimentados por el deshielo. El Bosque Nacional de Ángeles filtra y regula esta agua de las cuencas superiores, suministrando así agua limpia a las comunidades y hábitats del área de vertientes de los rios Los Ángeles, San Gabriel, Santa Ana, y Santa Clara del Valle del Antilope, entre otros.

Nuestras cadenas montañosas y el Bosque Nacional de Ángeles contienen parte de la mayor biodiversidad del país, las cuales incluyen cinco áreas naturales que proporcionan un hábitat muy importante para las especies amenazadas y en peligro. Los hábitats de los bosques no sólo son claves para la función ecológica, sino que también son vitales para la salud humana. Sin estos recursos que nos da el bosque, el Área Mayor Metropolitana de Los Ángeles y la comunidad del alto desierto no podría soportar a los más de 18 millones de residentes que viven aquí.

EMERALD



EMERALD NECKLACE STEWARDSHIP

2015 VOLUNTEER EVENTS NATIVE PLANT CARE EVENTS AT SCHOOLS & PARKS!

SPEND SOME TIME OUTDOORS!

We will be caring for native plant & habitat restoration areas and for park amenities & interpretive signage. We will supply the materials, work gloves & tools.

ALL YOU NEED TO BRING IS ELBOW GREASE!

SUPPORT THE EMERALD NECKLACE!



SIGN UP to RSVP, receive updates and additional volunteer days by e-mailing: volunteer@amigosdelosrios.org or visit us at www.amigosdelosrios.org Like us on Facebook www.facebook.com/emeraldnecklace



Amigos de los Rios M 0 U

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EMERALD

NECKLACE



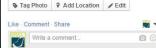
I Naturalist Project for Each Site

FACEBOOK



ENERALD	Emerald Necklace Group - Amigos De
1	Los Rios
	Posted by Brenda Kyle [?]

February 9 · Edited · @ A California Conservation Corps member helps us pull bullfrogs out of the water at Peck Water Conservation Park. Bullfrogs are an invasive species in Southern California and cause ecological harm For more info click here http://bit. ly/1zDEjVM





Emerald Necklace Group - Amigos De Los Rios Posted by Claire Robinson [?] May 29, 2014 · @ Playing on the trout - at Maywood **Riverfront Park**





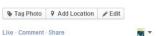


Tag Photo	Add Location	🖋 Edit		
ike Comment	Share		-	
Write a		00		
				eld Necklace Group - Amigos De La





Many thanks to Boy Scouts of America for inviting us to their expo - at Rosebowl.





Emerald Necklace Group - Amigos De Los Rios Posted by Marian Coensgen [?] October 6, 2014 - Edited - @

Dragonflies eat mosquito. Show them some love! - at Peck Road Water Conservation Park.

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Like · C				
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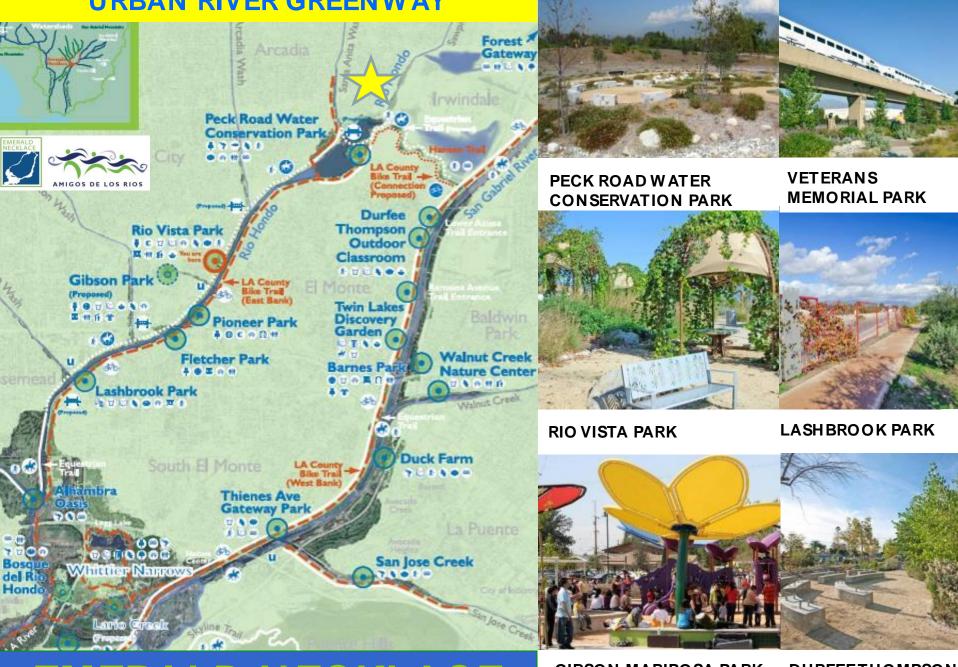
Emerald Necklace Group - Amigos De Los Rios Posted by Marian Coensgen [?] August 23, 2014 · Edited · @

#natureisforeveryone - at Peck Road Water Conservation Park.

Stag Photo Stad Location State

Like · Comment · Share

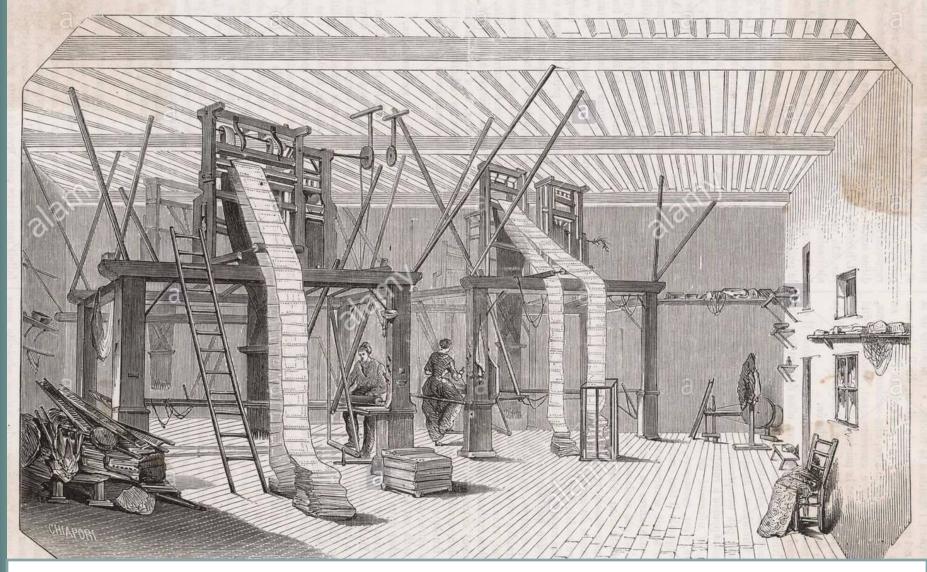
URBAN RIVER GREENWAY



EMERALD NECKLACE

GIBSON MARIPOSA PARK

DURFEETHOMPSON PARK



Collaborative Approach to achieve "Convergent Infrastructure' Benefits Policy, Funding Measures & State of the Art Implementation Work

