

Project Update Construction Network

March 11, 2020













Site Overview River Hydrology & Hydraulics Previous Site Uses & Remediation Options **Community Engagement Design Concepts**





LA RIVER BACKGROUND

TIMELINE



STRATEGIC OPPORTUNITIES | ARBOR STUDY PLAN



LEGEND Sub-Measures

Expose stormdrain outlets; convert to natural stream confluence
 3/5. Create geomorphology and plant for freshwater marsh
 16. Bioengineer channel walls
 17. Habitat corridors/riparian planting on banks





- 19. Planting built into channel walls
 22. Channel banks mainstem/widen channel with concrete remova
 26. Terrace banks
 27. Modify trap channel to vertical sides
 29. Invasive management
 Potential Temporary Construction Staging Areas

STRATEGIC OPPORTUNITIES | 100 ACRES OF RECREATION



SITE OPPORTUNITIES



Taylor Yard G2 Activation and Development Schedule

Small Guided Site Tours

- Monthly, began in May 2019
- Invited focus groups

Taylor Yard G2 Paseo del Rio Project

- 2-3 Year Timeline
- Targeted remediation, public events, river activation, habitat creation

Taylor Yard G2 Water Quality Improvement Project

- 5 Year Timeline
- Additional remediation, stormwater quality improvement feature, habitat creation, cultural programming, youth activities and training opportunities

Taylor Yard G2 River Park Project

- 10 Year Timeline
- Full remediation, habitat creation, recreation



SITE CONSTRAINTS

SCHEDULE OF RAIL AND BRIDGE PROJECTS LOCATION OF TAYLOR YARD PEDESTRIAN BRIDGE LOCATION OF LAY-DOWN AREA FOR TAYLOR YARD PEDESTRIAN BRIDGE FIRE REGULATIONS/ EMERGENCY ACCESS/EGRESS ARBOR SETBACK UPDATED UNDERSTANDING OF SITE CONTAMINATION

ACCESS TO SITE ACCESS TO COUNTY ACCESS ROAD ACCESS TO RAIL MAINTENANCE ROAD HIGH TENSION WIRE REGULATIONS & OFFSETS / NEW LOCATION EXISTING UTILITIES (WATER, GAS, & POWER)



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Hydrology Objectives

- Flood Risk: All design concepts will include necessary measures to ensure the project maintains, and does not exceed, the existing level of flood risk as the current concrete channel configuration of the Los Angeles River.
- Habitat: Safely reduce river velocity to support habitat

USACE Hydrologic Analysis

•Current Conditions - Using a design flowrate of 93,800 cfs (USACE), the current state of the LA River shows potential flood risk to the south/west of G2 - The original channel design used 83,700 cfs for the design flow rate. Changes to the watershed account for the increased flow rates.

 Current conditions include deposited sediment and growth of vegetation within the channel

 USACE Analysis specifically identified need for further refinements and additional analysis during subsequent phases.

Cooperative Approach for the LA River

- Los Angeles County is leading multiagency efforts to identify & prioritize projects along the 51-mile length of the river.
- This will be a multi-year effort with a variety of projects

https://pw.lacounty.gov/wmd/watershed/lar/docs/190320-LARMP-HydrologyAndHydraulics_Presentation.pdf

Planned Hydraulic Analyses

-Additional 1-D models for the river and the proposed concept alternatives under existing channel conditions

- •Develop 2-D model for the river and the selected design concept
- •Evaluate impacts to water surface elevations and velocities related to cross-sectional changes
- •Evaluate impacts to water surface elevations and velocities related to vegetation and roughness

•Develop channel protection concepts to include bioengineering and hardscape based on findings of results

Potential Flood Risk Abatement Strategies

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Previous Site Use

Union Pacific Railroad (or predecessors) onsite 1930 to 2006

Elevated Stock Switches at Taylor Yard *Circa 1950*

Taylor Round House Day Shift 1949

Taylor Yard Round House Circa 1950

Contaminants at Taylor Yard G2

	CONTAMINANT CATEGORY	HISTORICAL SOURCES
	Total Petroleum Hydrocarbons (TPH)	Diesel fuel, gasoline, engine oil, grease
-	Metals	Batteries, truing (grinding) for train wheel and track maintenance, t ties)
	Volatile Organic Compounds (VOCs)	Solvents, degreasers, painting products (resins, sealants, solvents, la
	Semi-Volatile Organic Compounds (SVOCs)	Paint strippers, resins, adhesives, degreasers
	Pesticides/ Herbicides	Landscape maintenance and pest management
	Polychlorinated Biphenyls (PCBs)	Coolants and lubricants in transformers, capacitors and other electric Also found in fluorescent light fixtures and hydraulic oils.
	Asbestos	Building materials (roofing, transite piping)

acquers, varnish)

cal equipment.

Possible Remediation Strategy

Use combination of remediation practices to achieve appropriate residential, recreational, or ecological standards based on the ultimate design:

- Soil Removal and Disposal: Contaminated soil is removed and transported by truck or train to an appropriate disposal site
- Engineered Cap: Contaminated soil is covered with clean sand, an impermeable liner, then several layers of clean soil to allow for vegetation
- Soil Treatments: Contaminated soils are treated to either transform, capture or stabilize target contaminants in-place or following excavation (eg: phytoremediation, microbial degradation, chemical oxidation, stabilization/solidification)

... among others

Entry way to Chatsworth Park South, a remediated Los Angeles park

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COMMUNITY INPUT

WHAT WE'VE DONE

COMMUNITY SITE TOURS

COMMUNITY **WORKSHOPS**

COMMUNITY SURVEY

WHAT WE HEARD

G2 TAYLOR YARD BIVER PARK PROJECT	Commu	unity Feedback Survey
(Optional) Name:	E-mail:	
Phone: ()	Zip Code:	
The Taylor Yard G2 River Park Project, while public park (approximately 42 acres) adjac large area of native-plant habitat within th surroundings. We would like to hear from the following survey and share with us yo	h is being designed by the City of Los Angeles to the Los Angeles River. One of the prise site, with a connection to the LA River, to you to find out what you would like to see our thoughts and ideas!	eles, Bureau of Engineering, will be a large imary goals for the project is to restore a benefit the health of the river and its and do in the new park. Please complete
 In general, which parks or public open spaces do you enjoy visiting most often new? Ilist up to thece) 	10. What do you do there? Bike Fish Kayak Picnic Walklog Other (please describe)	Water guality treatment streams for relawater Wetlandsbonds Other Bicycle "fixed" station Bicycle "fixed" station Bicycle renal_station
t. How do you get there? (check all that apply?) Public transportation Vehicle Walk UWalk Other (please describe)	Which activities/features would you like to see in the Taylor Yard G2 River Park? (plases salact your top three from sach category) 11. Activities/Recreation Elements Children s nature/adventure play	Bucket remaindervise and/or automotive Buckets and the Berwite parcel to the north and Rio de Los Angeles State Park to the east Elevated welkways Kayak rentalikayak Jaunch Parkins - walking and/or bicycle Pictics areas
3. Do you most oftan go: Alone With friends With friends With family Other (please describe)	Exercising Fishing Needow Penidking Sports fields Walking/hunning/jogging Other	Shade structures Viewing decks Other 17. Sustainability Elements 18 Biofiliration (filtering pollution through nature) 10 Baylight storm drains to create
4. When do you most often visit the park? Weekandas Weekandas 5. What time of day do you most often visit parks? Mornings Around noon Evenings	12. Social/Events/Event Spaces Art exhibits Classes Cultural events Evented for the social Former starts Formity gatherings Formers markets Forder startkaftes	arroyo (wosh) tributaries local materials Native planting Repycled materials Splar power Splar power with plantsi Permeable powing Water capture and storage Other

A NEED FOR RECREATIONAL OPPORTUNITIES (walking, jogging, kayaking)

A PARK FOR ALL / A SHARED VISION

(results are consistent throughout zip codes)

A PARK FOCUSED ON THE RIVER

(river interaction and education)

FOCUS GROUPS

A HIGH INTEREST IN NATURE (open spaces, trails, habitat)

A SPACE FOR CULTURAL EVENTS (pavilions, amphitheater, flexible spaces)

3 MAIN THEMES FOR THE PARK

A HIGH INTEREST IN NATURE

(open spaces, trails, habitat)

A NEED FOR RECREATIONAL **OPPORTUNITIES** (walking, jogging, kayaking)

A PARK FOCUS ON THE RIVER (river interaction and ecological education)

THEME1 - URBAN ECOLOGY

THEME 2 - PEOPLE

THEME 3 - THE SITE & THE RIVER HISTORY

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CELEBRATING NATURAL PROCESSES

AN EXTENSIVE RIVER BED CREATING A BIODIVERSITY HOTSPOT

ENGAGING THE RIVER EDGE

SOFT EDGE

STORMWATER + TOPOGRAPHY

SOFT EDGE | PROPOSED SITE FEATURES AND PROGRAM ELEMENTS

3D VIEWS | LOOKING EAST

CELEBRATING THE HISTORY OF THE SITE

A PLACE OF WONDER & IMAGINATION

THE YARDS

STORMWATER + TOPOGRAPHY

THE YARDS | PROPOSED SITE FEATURES AND PROGRAM ELEMENTS

3D VIEWS | LOOKING EAST

CELEBRATING THE STORY OF THE LA RIVER

ICONIC BRIDGES

STORMWATER + TOPOGRAPHY

ISLAND | PROPOSED SITE FEATURES AND PROGRAM ELEMENTS

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OCTOBER 15, 2019

OPTION COMPARISON

ALTER CHANNEL EDGE

ARBOR

· Reflects historic tributary with stormwater/day-lit creek feature

BIODIVERSITY

- High biodiversity potential where day-lit creek feature meets the River
- Creates a protected habitat island & marsh channel with high potential for biodiversity
- Individual Stormwater & River water habitats

KEY FEATURE

- Enlarges footprint of the site with the creation of the Island
- Formal river steps

TOPOGRAPHY

 Major topographic feature creates a "hide and reveal" element at park entrance

POWER TOWERS

Power towers are relocated

- SOFT EDGE
- Closest to the ARBOR diagram & objectives/riparian terraces
- · Creates a habitat rich River edge riparian environment
- Pedestrian land bridge connecting to Rio de Los Angeles State Park
- Ecological connections through the park
- Stormwater habitat seasonally flooded with River water
- Built structures focused on Taylor Plaza
- Large riparian terraces with informal river gathering spaces
- Major topographic feature at the interface with the Bowtie site allows for expansive views of the river basin
- Power towers are relocated

- habitat

- edge
- canopy

MAINTAIN CHANNEL EDGE

• More upland habitat, less riparian

 Stormwater feature/day-lit creek will provide habitat value • Minimal riparian habitat at river's edge Less excavation/alteration of the river

 Constructed wetland combines River water and Stormwater

Celebrates roundhouse with sculptural

 Building focused at main park entrance • River balconies & amphitheaters

 Major topographic features focus on creating a barrier to the rail as well as a rich habitat network

Power towers are not relocated

G1 + G2 STUDY | ISLAND

Questions?

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