

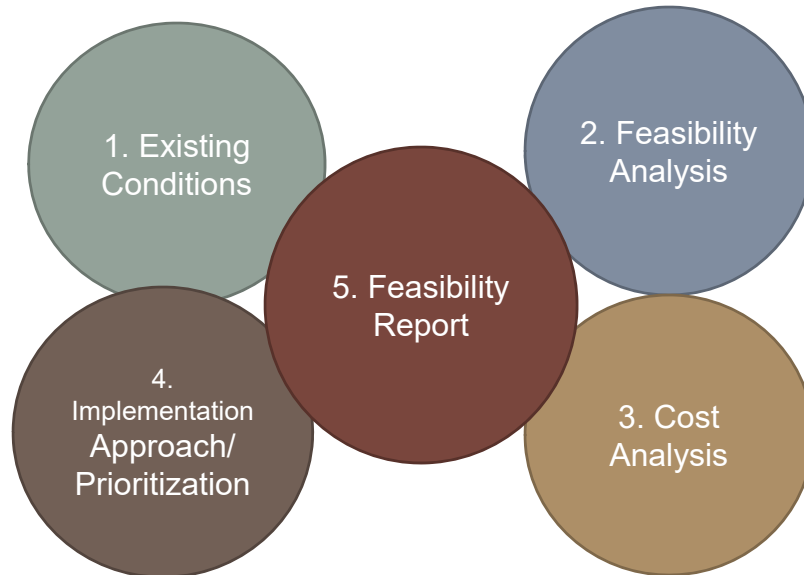
OVERVIEW OF STORMWATER CAPTURE AND USE FEASIBILITY STUDY TAC MEETING #1, JULY 18, 2017

PRESENTED TO SAN DIEGO IRWM RAC
AUGUST 2, 2017



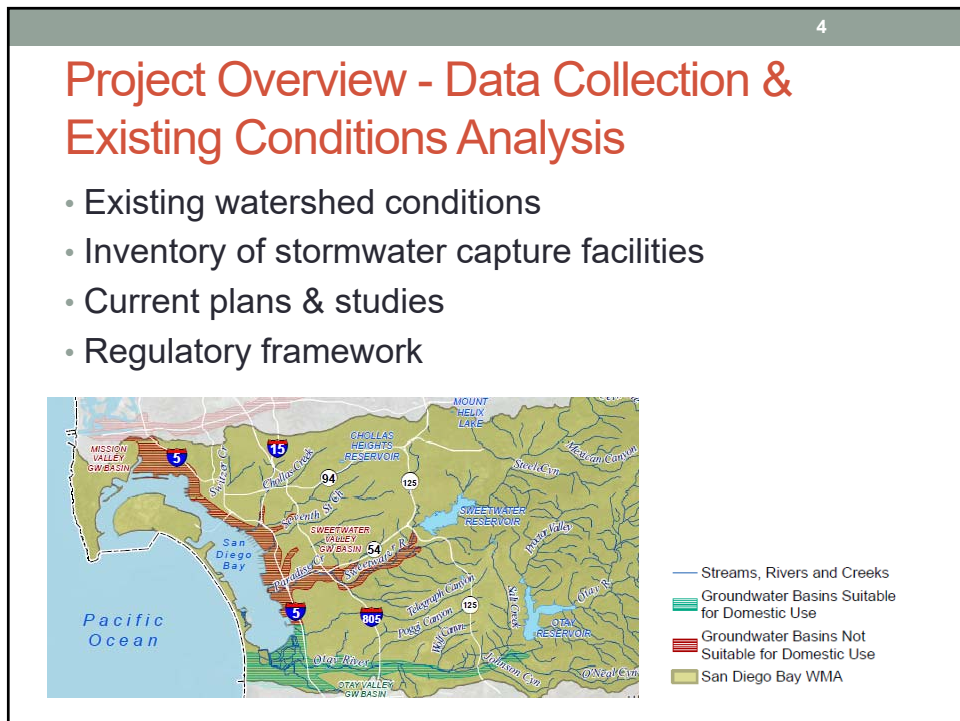
2

Project Overview- Feasibility Report



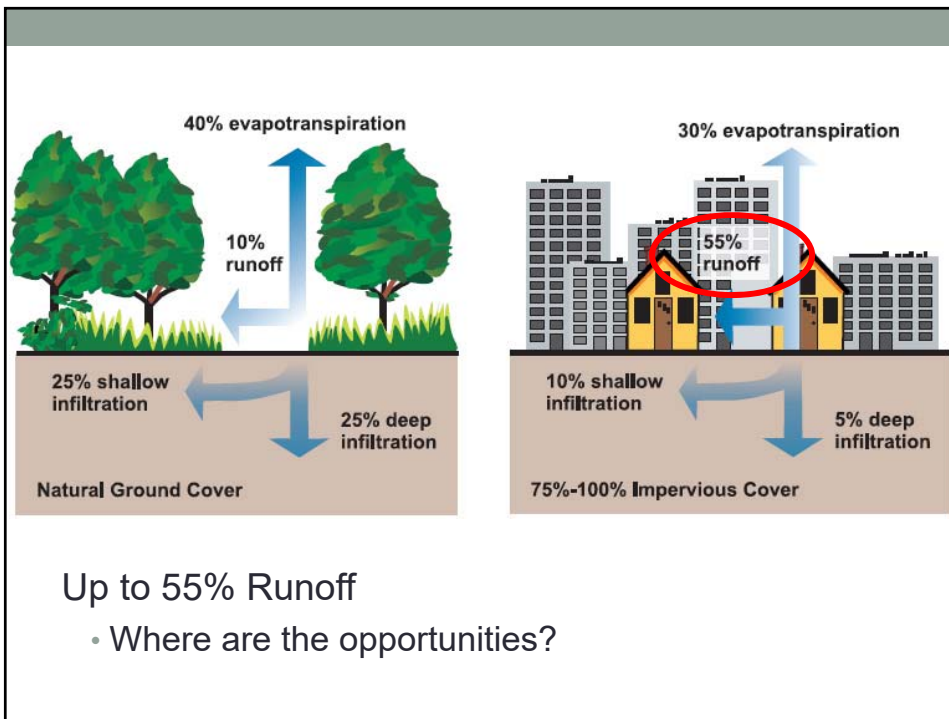
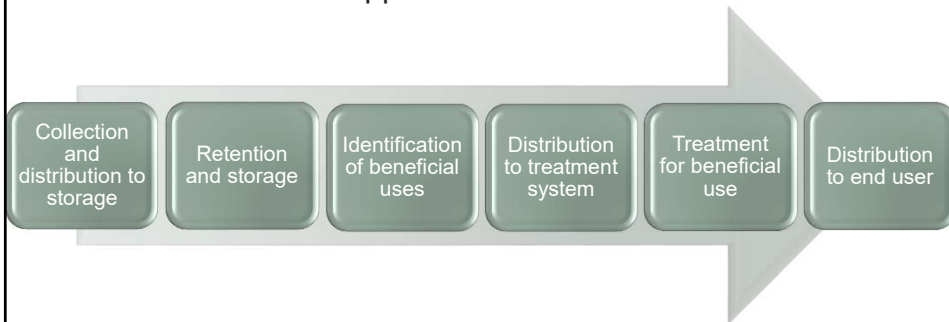
TAC Meeting Summary			
TAC Representation Invited to Participate			
Academia	BIA*	Tribal*	Copermittees*
Department of Navy	Water Agencies*	NGO's*	Construction
Legal Counsel	Hydrologists	IRWM*	Regional Board
Taxpayer's Association	Public Utilities* (POTWs)	Floodplain Management*	Resource Agencies*
Farm Bureau*	NRCS	Caltrans	School Districts
ASLA	UCSD*	IEA	CWEA
Wastewater JPA			

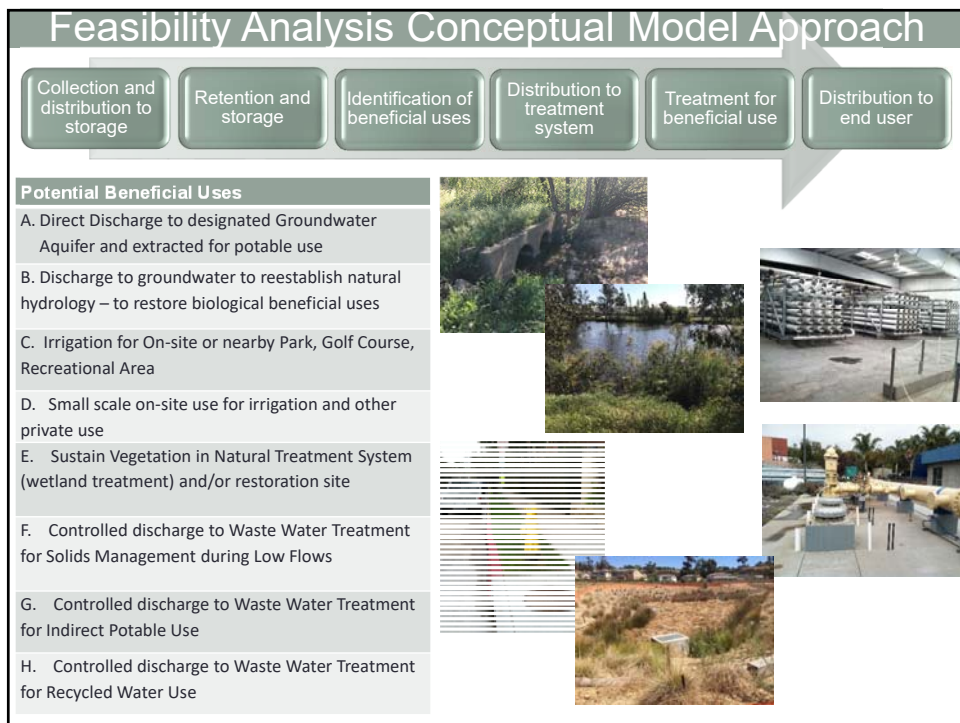
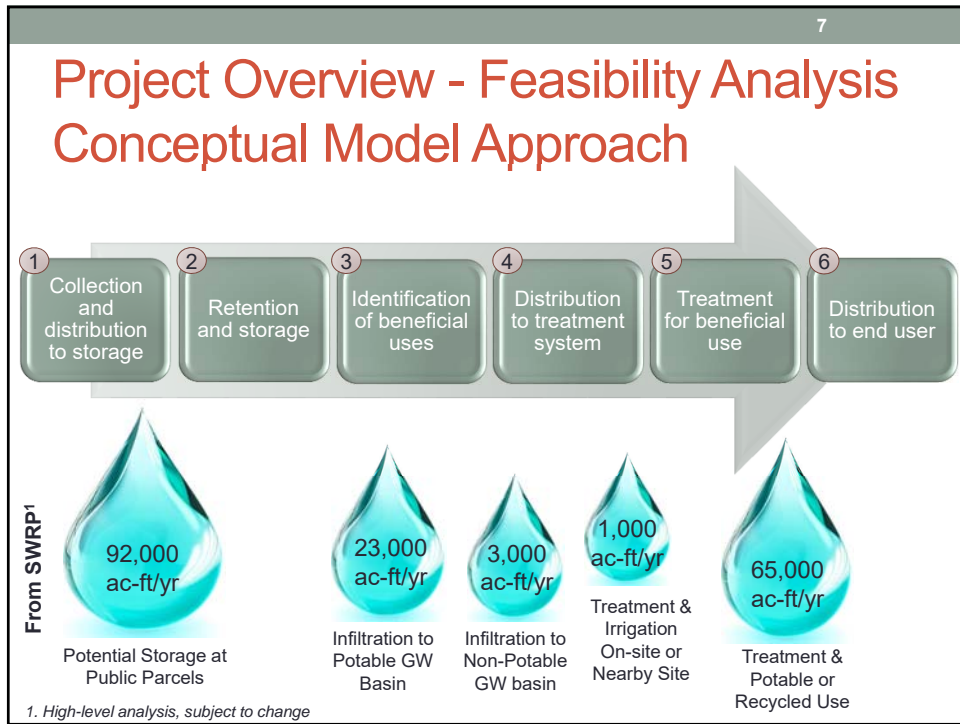
* Indicates representation on the RAC



Project Overview - Feasibility Analysis

- Technical Feasibility Analysis
Stormwater Capture & Use Memo
 - Description & rationale for modeling approach
 - Model results & analyses
 - Conclusions on opportunities & constraints





Project Overview - Cost Analysis

- Cost of Concept / Actual Projects
 - Capital, O&M, rehabilitation & replacement costs
- Use select concepts as basis for compiling cost for similar projects & sites
- Develop unit costs – \$/volume
- Identify potential funding



Project Overview - Implementation Approach - Prioritization

Implementation Approach for Capture & Use

- Description of implementation approach & classification scheme
- Implementation analysis of specific projects, areas or alternatives for increasing stormwater capture & use
- A summary table of ranking or priority for each area, project or alternative

Project Overview - Implementation Approach - Prioritization

Develop Criteria

- Volume of local water supply augmented
- Multi-Benefits (Stormwater Resource Plan Scoring)
- Feasibility
 - Sources vs. Needs
 - Constructability – Level of new infrastructure needed
 - Cost - Funding
 - Short & Long-Term Implementation Time Line
- Prioritize projects
- Identify short-, mid- & long-term projects



TAC Meeting Summary

Considerations recommended by TAC:

- Maximum storage times for Vector Control (72 hrs.)
- Projects on private property – no regional quantification
- Variability of the runoff capture volumes to understand range
- Base line flow needs for ecological benefits
- Capturing dry weather flows for diversion to the sanitary sewer
- Account for increased population/wastewater generation rates
- Incorporating current studies to look at stormwater diversion to wastewater plants
- Real-time monitoring & controls for conveyance of stormwater to treatment

TAC Meeting Summary

Considerations recommended by TAC, continued:

- Flood mapping & effects on flood areas
- Cost analysis - use a triple bottom line approach
- Depth to groundwater needed to assess recharge capacity & treatment of stormwater infiltration
- Present study as a living document that can be used by others for future planning
- Investigate including federal lands
- Include studies by Caltrans looking at storage projects in right of ways

How the Basin Plan may inform the SWCFS

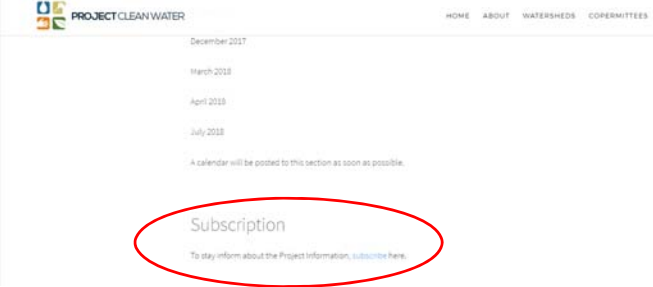
- Improve the efficiency & effective use of existing structural systems, including reservoirs, & conveyance, treatment & reclamation facilities.
- Increase water supply reliability & resilience.
- Increase accessibility of locally developed, advanced treated purified water.
- Take advantage of potential energy management opportunities.
- Address anticipated climate change impacts.
- Determine how climate change will impact the current & future water supply portfolio of the San Diego region.

15

Data Sharing Opportunities

Data Sharing:	Time frame
<p>FTP Site: Open file explorer: ftp.esassoc.com Username: TAC Password: SDH2O</p>	<p>COB August 8, 2017</p>

<http://www.projectcleanwater.org/stormwater-capture-and-use-feasibility-study/>

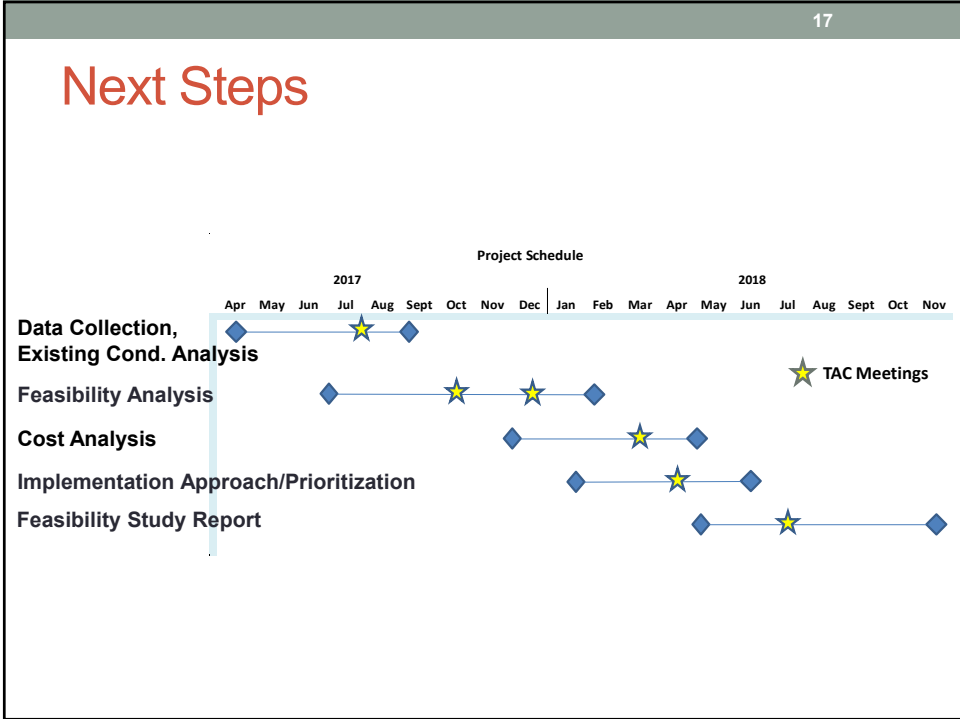


The screenshot shows the Project Clean Water website with a calendar for 2017. The months listed are December 2017, March 2018, April 2018, and July 2018. A note states 'A calendar will be posted to this section as soon as possible.' Below the calendar, there is a 'Subscription' link circled in red, with the text 'To stay informed about the Project Information, [subscribe here.](#)'


16

Next Steps


Milestone	Time frame
Task 1: Data Collection & Existing Conditions Technical Memo	9/26/17
Task 2: Technical Feasibility Analysis, Model Approach – <i>Draft Memo</i>	10/23/17
TAC Meeting #2: Model Approach Webinar	Late October



Thank you!



Stephanie Gaines
Watershed Protection Program
stephanie.gaines@sdcounty.ca.gov
858-694-3493



David Pohl
DPohl@esassoc.com
760-497-3318