WIMBERLEY VALLEY
Cypress Creek Project - WPP
Basin Steering Committee meeting
March 20th, 2014
STEP 1  Characterization Report
(Phase 1) 2009-2010
STEP 1  Setting the priorities
(Phase 2) 2011-2013
Primary growth areas

Figure 3.2. Primary growth areas in the Cypress Creek watershed.
Watershed and sub-watershed criteria

Subwatershed 4

Nitrogen in mg/L

0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8

Years

2009 2050

With BMPs
Without BMPs
Target
<table>
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<tr>
<th>Priority Level</th>
<th>BMP</th>
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| Highest Prioritization 11-23         | SGMA/Groundwater Protection Strategy  
Water Conservation Pricing Strategies  
Water Conservation Program for Water Providers or Municipalities |
| Second Highest Prioritization 6-10   | Urban Wildlife Management -- Deer  
Riparian Buffers  
Water-intensive Turf Grass Ordinances  
Groundcover Establishment -- Agricultural  
Parking Lot Pervious Design Strategies  
Xeriscaping/Nativescaping  
Engineered Swales  
Conservation Easements  
Karst Feature Protection Measures  
Comprehensive Stormwater Assessment  
Purchase of Development Rights  
Landscape Mulching |
| Medium Prioritization 2-5            | Rainwater Harvesting Strategies  
Cypress Creek Land Trust  
Nutrient & Fertilizer Management  
Habitat Conservation Areas -- Urban  
Rock Berms/Gabions  
Biofiltration/Rain Garden  
Tree Protection  
Groundcover Establishment -- Urban  
Porous/Pervious Pedestrian Walkways  
Alternative Brush Control -- Prescribed burns  
Grazing Management Strategies  
Landowner Incentive Program  
Pet Waste Ordinance & Stations |
| Low Prioritization 0-1.9             | Rock Weirs/Cross-vanes  
Vegetative Filter Strips  
Silt fences  
Roadside ditches  
Rock berms  
Slope stabilization  
(Alternative)  
Sediment traps  
Silt fences  
Rock weirs/cross-vanes  
Silt fences |
Table 1. Natural Resource Targets for Cypress Creek water quality and quantity

<table>
<thead>
<tr>
<th>Water Quality Targets</th>
<th>Target Conditions</th>
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| I. Nitrogen (N)       | 1.65 mg/L
|                       | (Nitrate screening level- 1.95 mg/L) |
| II. Total Suspended Solids¹ (TSS) | First 5 years @ screening level 5.0 mg/l |
|                       | Years 6-10 4.0 mg/L – Group A |
|                       | Years 6-10 4.5 mg/L – Group B |
|                       | Years 6-10 5.0 mg/L – Group C |

-Parameters of Concern

| III. Escherichia coli (E. coli) | Single sample- 394 cfu/100mL |
|                                | Geometric mean- 126 cfu/100mL |
| IV. Dissolved Oxygen (DO)      | 24-hr mean values above 6.0 mg/L |
|                                | Grab sample values above 4.0 mg/L |
| V. Flow                        | Jacob’s Well- 3.8 to 6.4 cfs |
|                                | Blanco Confluence- 4.11 to 5.1 cfs |
|                                | Cypress Creek- 4 to 6 cfs |
| VI. Impervious Cover           | 15-20% |
| VII. Fats, Oils & Grease       | No more than a 300-500% increase from current conditions |

¹ TSS targets are specific to vulnerable tributary subwatershed groups detailed in Element B
STEP 2
(Phase 3)

"I think you should be more explicit here in Step Two."

"THEN A MIRACLE OCCURS"

\[
\begin{align*}
263 & \div 6.24 \\
& \approx 42.2
\end{align*}
\]

\[\frac{0.6511}{150} \times 0.7 \approx 0.345\]
NEXT STEPS – “Interim Period”
Current Challenges

- Funding the WPP Priorities
- Funding additional NEEDED studies
- Funding additional data analysis
- Operationalizing the WPP
- Transition of leadership
Additional activities

• Ground/Source Water Protection Strategy – *Preserving Flows*
• Artesian and recharge zones for the local springs
• Developing a localized groundwater/surface water interaction model
• How best to use the emerging science for decision-support
Thanks to our partners!
Contact Info

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