Meeting Overview and Introductions

Nikki Dictson
Texas AgriLife Extension Service

Plum Creek Watershed Partnership Meeting
Lockhart, Texas
November 10, 2011

Plum Creek Steering Committee

Bill Steubing, LO
Bill Watson, Lawyer/LO
Bud Wade, Caldwell-Travis SWCD
Bobby Berger/Chris Powell, Luling
James Earp/Raquel Garcia, Kyle
Debbie Magin, GBRA
Dianne Wassenich, SMRF
Frank Hamilton, Realtor
Joe K. Smith, Business/LO
Johnie Hallburton, PCCD
Weatherford/Rodgers, Lockhart
Oscar Fogle, LO/GBRA Director

Chris Betz, City of Uhland
Citizen of Luling, Vacant
Paul Pittman, Polonia WSC
Peter Reinecke, LO
Joseph Marini, Lehigh Cement
Judge Born, Caldwell Co.
Com. Mark Jones, Hays County
Stanley Fees, City of Buda
Susan Meckel, LCRA/LO
Allen/Caskey, Hays Co. SWCD
Citizen of Kyle - Vacant

Vote on approving Donnie Graham to replace Bud Wade as the representative of Caldwell-Travis SWCD seat.

Discussion and Update of the Watershed Protection Plan

Nikki Dictson
Texas AgriLife Extension Service

Plum Creek Watershed Partnership

- Partnership started with public meetings in April of 2006.
- Partnership met monthly to develop the watershed protection plan for almost 2 yrs.
- WPP was completed in February 2008.
- Implementation began before the plan was completed.

Outreach and Education 106 Funding

- Received $150,000 in September 2007 from a TCEQ Clean Water Act 106 Grant
  - Watershed Protection Campaign Brochure
  - 2 NEMO – Urban Growth Workshops
  - 4 Online Modules- Wastewaters Treatment Plants; OSSFs; Stormwater Management; and Fats, Oils, and Grease
  - 8 Septic System Workshops
  - Illegal Dumping/Litter Campaign
  - TCEQ Fats, Oils, and Grease Workshops and Site Assessment Visits
Plum Creek Watershed Implementation Projects

- Water Quality Monitoring: $742,710
- Urban Stormwater Control:
  - $255,453 (Kyle)
  - $275,000 (Lockhart)

TCEQ CWA § 319 (h) nonpoint source grants for outreach and education, PCWP facilitation, agricultural technical assistance and financial incentives programs, and feral hog management education

TSSWCB CWA § 319 (h) nonpoint source grants: New local watershed coordinator and education

TCEQ CWA § 319 (h) nonpoint source grants for cities
- Kyle
- Lockhart

Plum Creek Implementation Grants

- Urban Stormwater Management Measures
- Street Sweeping
- Buda, Kyle, Lockhart, and Luling all have street sweeping programs
- Urban Stormwater Assessment
- Kyle has completed
- Lockhart is in the process
- Retention Retrofits
- Completed one and in construction on second

Urban Stormwater Management Measures

- Storm Sewer Management
  - Lockhart grant includes installing filters on storm drain inlets throughout the city center.
  - Currently conducting illicit discharge survey
- Urban Waterfowl Management
  - Lockhart continues to manage
- Dog Waste Management
  - Pet Waste Stations have been purchased and are being installed in all 4 cities: Kyle (3), Buda (18), Lockhart (10) and Luling (6).

Urban Stormwater Management Measure Responsible Party

<table>
<thead>
<tr>
<th>Management Measures</th>
<th>Responsible Party</th>
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<tbody>
<tr>
<td>Urban Stormwater Management Measures</td>
<td>City of Kyle</td>
</tr>
<tr>
<td>Storm Sewer Management</td>
<td>City of Kyle</td>
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<tr>
<td>Urban Waterfowl Management</td>
<td>City of Kyle</td>
</tr>
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Wastewater Management Measures

- Urban Stormwater Management Measures
- Storm Sewer Management
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- Dog Waste Management
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<tr>
<th>Management Measure</th>
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<tbody>
<tr>
<td>Storm Sewer Management (Phosphorus Reduction)</td>
<td>WWTP Operators</td>
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<tr>
<td>Storm Sewer Management (TSS Reduction)</td>
<td>WWTP Operators</td>
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<tr>
<td>Storm Sewer Management (Pathogen Mitigation)</td>
<td>WWTP Operators</td>
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<tr>
<td>Storm Sewer Management (Flargen Mitigation)</td>
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<td>Storm Sewer Management (Phosphorus Monitoring)</td>
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Water and Wastewater Planning
- Caldwell County Water and Wastewater Planning Study
- Hays County Water and Wastewater Planning Study
- Kyle Water Reuse Feasibility Study
- Wastewater Permit Renewals
- Assisted Caldwell County with writing a Solid Waste Grant to CAPCOG that was awarded for two years and the county continued.

Wastewater Management Measures
- Luling Wastewater TWDB CWA State Revolving Fund assistance to upgrade wastewater collection system and treatment facility.
- Septic System Connection to Sewer
  - Potential Hillside Terrace Project with future financial programs from TWDB.
- Septic System Repair and Replacement
  - Caldwell County has applied for grant funding through USDA.

Agricultural and Non-Domestic Animal Management Measures

<table>
<thead>
<tr>
<th>Management Measure</th>
<th>Responsible Party</th>
<th>Year</th>
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<tbody>
<tr>
<td>WQMP Technician (New Position)</td>
<td>AgriLife Extension</td>
<td>1-3</td>
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<tr>
<td>Livestock Water Quality Management Plans</td>
<td>SWCD</td>
<td>10</td>
</tr>
<tr>
<td>Cropland Water Quality Management Plans</td>
<td>SWCD</td>
<td>9</td>
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</table>

Non-Domestic Animals and Management Measures
- Texas Wildlife Services position and funding to purchase equipment was denied.
- Extension Assistant was hired to manage educational program.
- Texas Wildlife Services had some extra funding and conducted helicopter flights on cooperators lands to remove 372 hogs.
- Brochures, publications, fact sheets and press releases have been developed.
Outreach Activity: Broad-based and Urban Programs

<table>
<thead>
<tr>
<th>Outreach Activity</th>
<th>Responsible Party</th>
<th># / Year</th>
</tr>
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<tbody>
<tr>
<td>NEMO Workshops</td>
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<tr>
<td>Stormwater Management Demonstrations</td>
<td></td>
<td></td>
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<tr>
<td>Site Assessment Visits</td>
<td></td>
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<tr>
<td>Urban Sector Turf and Landscape Management</td>
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</tr>
</tbody>
</table>

Outreach Activities – Broad-Based Programs

- Texas Watershed Steward Workshops
  - 1st training was held December 4, 2007 in Kyle (42 participants)
  - 2nd training was held in Luling on August 6, 2008 (86 participants)
- Elementary School Water Quality Project
  - Conducted each year for over 3,000 school children
- Tributary Signs were denied by TXDOT to be installed along roadways in watershed.
- Outreach at Local Events
  - To date over 10 events and 2,500 individuals have been reached.

Outreach Activities - Urban Programs

- NEMO Workshops – Conducted 2 Managing Urban Growth Workshops
- Stormwater Management Demonstrations
  - In coordination with TCEQ, a demonstration in downtown Kyle and Lockhart were conducted.
- Site Assessment Visits
  - 9 SAVs were conducted at City Wastewater and Water Treatment Facilities.
- Urban Sector Turf and Landscape Management
  - Conducted a SAFE workshop with Texas State in San Marcos.

Outreach Activity: Wastewater, Ag, Feral Hog, and Additional Educational Programs

<table>
<thead>
<tr>
<th>Outreach Activity</th>
<th>Responsible Party</th>
<th># / Year</th>
</tr>
</thead>
</table>
| Municipal Wastewater Outreach
  - Online Wastewater Treatment Facility Module
  - Online Fats, Oils, and Grease (FOG) Module
  - Door hangers, brochures, post cards, and press releases were used to advertise
  - Lockhart Household Hazardous Waste Collection Facility now has fats, oil, and grease collection

Septic System Outreach

- Septic System Workshops
  - 7 workshops were conducted for homeowners and practitioners
  - Over 118 practitioners and 74 homeowners participated.
- Assistance was provided to counties including over 50,000 copies of over 15 different factsheets
- Online Septic System Module in English and Spanish
Agricultural Outreach

- Annual Soil and Water Testing Campaigns
- Nutrient, Crop, and Livestock Grazing Management Workshops
- Agricultural Waste Pesticide Collection Event in 2007 – TCEQ is no longer funding events across the state.
- Stream and Riparian Workshops conducted in Lockhart and San Marcos

Feral Hog Management Outreach

- Annual Feral Hog Management Workshops – over 1,000 attendees to date
- Feral Hog Online Reporting System
- Feral Hog Management Fact Sheets – 13 (over 12,000 internet downloads)
- Feral Hog Press Releases – 10
- Feral Hog Blog Articles – 20 (27,513 unique visits)
- Internet web-videos – 10 (over 71,000 views)

Illegal Dumping and Community Creek/Park Cleanup Events

- Over 16 Illegal Dumping Sites Cleaned up
- Illegal Dumping Signs installed at sites
- The fourth annual Lockhart Community Cleanup occurred on September 24, 2011.
- This event includes the cleanup of seven city parks along Town Branch Creek with over 300 participants.
- Kyle also has an annual Cleanup Event that has had over 180 attendees and 300 participants previously at Steeple Chase Park.

Lockhart and Kyle Cleanup & Environmental Fairs

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- Kyle Water Reuse Feasibility Study
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- Assisted Caldwell County with writing a Solid Waste Grant to CAPCOG that was awarded for two years and the county continued.

TPDES Wastewater Discharge Permits in Plum Creek (Segment 1810) Watershed.

| Facility Name | Zip Code  | Permitted Effluent | Effluent Monitoring Requirement | Permit Expires | Effluent Monitoring Requirement
<table>
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<tr>
<td>FEMS</td>
<td>78645</td>
<td>394 cfu/100mL daily max once per week</td>
<td>no monitoring requirement</td>
<td>02/28/2015</td>
<td>no monitoring requirement</td>
</tr>
<tr>
<td>FMEM</td>
<td>78645</td>
<td>394 cfu/100mL daily max once per day</td>
<td>no monitoring requirement</td>
<td>02/28/2015</td>
<td>no monitoring requirement</td>
</tr>
<tr>
<td>LULNG</td>
<td>78645</td>
<td>394 cfu/100mL daily max once per quarter</td>
<td>no monitoring requirement</td>
<td>02/28/2015</td>
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<tr>
<td>HOMES</td>
<td>78645</td>
<td>394 cfu/100mL daily max once per week</td>
<td>no monitoring requirement</td>
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<tr>
<td>RAILYARDS-VILLAGE</td>
<td>78645</td>
<td>394 cfu/100mL daily max once per quarter</td>
<td>no monitoring requirement</td>
<td>02/28/2015</td>
<td>no monitoring requirement</td>
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<tr>
<td>SHADOW CREEK</td>
<td>78645</td>
<td>394 cfu/100mL daily max once per week</td>
<td>no monitoring requirement</td>
<td>02/28/2015</td>
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<tr>
<td>FORK</td>
<td>78645</td>
<td>394 cfu/100mL daily max once per week</td>
<td>no monitoring requirement</td>
<td>02/28/2015</td>
<td>no monitoring requirement</td>
</tr>
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</table>
Other Developments

- City of Kyle Plum Creek Preserve – approximately 350 acres of parkland protecting riparian corridors within the urbanized upper portion of the watershed.
- State Highway 130 Wetland Mitigation – TxDOT developed 265-acre wetland site for mitigation of construction impacts.
- Central Texas Greenprint for Growth – Participation in the planning process to understand where development should ideally occur in relation to the protection of important natural, cultural and recreational resources.
- Oil Spill Detection and repair – GBRA staff conducting water quality sampling discovered the broken pipe and contacted the Railroad Commission of Texas who oversaw the repair and cleanup.

Next Steps for WPP Update

- After this meeting, the document will be updated with changes and additional information by the December Holidays.
- In January the update will be sent to stakeholders for a 21 day comment period.
- Comments will be addressed so that a final version is ready for February 9th Meeting for approval.
- Distribute update beginning in March.

Implementation Grant

- GBRA led the effort to develop and submit a proposal for additional §319(h) grant funds from TSSWCB for a watershed coordinator.
- Developed an inter-local agreement with partner entities and 40% match requirement.
- EPA has approved the grant project for the FY2011 Grant Cycle.
- The start date for the contract is November 1, 2011.

Match Spreadsheet

<table>
<thead>
<tr>
<th>Entities</th>
<th>2009 Population</th>
<th>Area Acres</th>
<th>Landport (sq. M)</th>
<th>Cost Portion for $48,000</th>
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<tbody>
<tr>
<td>Caldwell County</td>
<td>36,899</td>
<td>36,000</td>
<td>152</td>
<td>2,283</td>
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<tr>
<td>Caldwell County (In Watershed)</td>
<td>29,138</td>
<td>29,000</td>
<td>122</td>
<td>1,771</td>
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<tr>
<td>Hays County</td>
<td>15,166</td>
<td>24,100</td>
<td>9,142</td>
<td>4,857</td>
</tr>
<tr>
<td>Kyle</td>
<td>34,729</td>
<td>10,000</td>
<td>4,368</td>
<td>1,500</td>
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<tr>
<td>Luling</td>
<td>5,502</td>
<td>1,000</td>
<td>496</td>
<td>496</td>
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<tr>
<td>Lockhart</td>
<td>4,570</td>
<td>7,210</td>
<td>1,126</td>
<td>1,126</td>
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<td>Buda</td>
<td>778</td>
<td>7,000</td>
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<td>GBRA</td>
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<td>24,8637</td>
<td>388</td>
<td>4,513</td>
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<td>PCCD</td>
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<td>Uhland</td>
<td>14,238</td>
<td>7,210</td>
<td>1,126</td>
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<td>Polonia WSC</td>
<td>3,855</td>
<td>2,396</td>
<td>546</td>
<td>546</td>
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<td>Watershed</td>
<td>28,334</td>
<td>24,8637</td>
<td>388</td>
<td>4,513</td>
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<tr>
<td>TOTAL</td>
<td>138,866</td>
<td>767,531</td>
<td>13,886</td>
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<tr>
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<th>ESTIMATED BUDGET</th>
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<td>TOTAL MATCH</td>
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<td>48,000</td>
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Update on New Implementation Project

Nikki Dictson
Texas AgriLife Extension Service

Debbie Magin
Guadalupe-Blanco River Authority
Update on Kyle CWA §319 Implementation Grant

Raquel Garcia
Grants Administrator for the City of Kyle

Update on Plum Creek Feral Hog Education Program

Jim Cathey
Texas AgriLife Extension Service – Wildlife & Fisheries Science

Education Program for Feral Hog Management in the Plum Creek Watershed

Jared Timmons
Extension Assistant
Texas AgriLife Extension Service
Department of Wildlife and Fisheries Sciences
November 10, 2011

Presentations/Meetings
- 8/26 – Caldwell County Land Expo
- 9/8 – West Cave Preserve
- 9/15 – Lampasas River Watershed
- 10/2 – 10/5 – Feral Hogs Community of Practice face to face meeting
- 10/6 – Riparian Summit
- 10/20 – Hays County Feral Hog Workshop
- 11/1 – Geronimo and Alligator Creek Watershed Tour

Media
- Wild Wonderings blogs:
  - 8/15 – “Feral Hogs and Disease Concerns”
  - 8/22 – “Feral Hogs and Water Quality in Plum Creek”
  - 10/10 – “Hays County Feral Hog Workshop”
- 10/20 – interview for San Marcos Daily Record in print “Taming wild hog menace” on 10/21
- Summer 2011 – Headwaters newsletter by Texas Stream Team “Feral Hogs and Plum Creek Watershed”

Landowners
- Four site visits
- Three public reports, one landowner report
Available resources

- http://pcwp.tamu.edu/FeralHogs/
- Publication links
- Site visits for landowners
- Presentations for groups

Project Funding

- Provided through a Clean Water Act §319(h) nonpoint source grant from the Texas State Soil and Water Conservation Board and the U.S. Environmental Protection Agency

Questions?

Jared Timmons
Extension Assistant
(254) 485-4886
jbtimmons@ag.tamu.edu

Implementation of Agricultural Best Management Practices

BJ Westmoreland
Caldwell-Travis Soil and Water Conservation District

Technical and Financial Assistance for Ranchers and Farmers in the Plum Creek Watershed

Plum Creek Watershed Partnership Meeting 11/10/11

Update

- To Date:
  - 8 WQMPs certified
  - All at different stages of implementation
    - 1098 acres under plan
    - 110 acres of grass planted
    - 6,529 feet of fence constructed
  - Will be implementing additional pasture/hayland planting, livestock watering facilities, and additional cross-fencing
  - Lack of adequate rainfall has inhibited the ability of producers to implement conservation practices
Update

- Attended Lampasas River Watershed meeting on 9/15 to give a presentation on implementation of the 319 program in the Plum Creek Watershed
- Assisted producers who have been affected by wildfires in the area

Moving Forward

- Continue WQMP development for enrolled producers
- Assist producers with conservation requests and concerns
- Write 2 additional WQMPs for recently enrolled producers

Moving Forward (continued)

- WQMP program has been extended until August 31, 2012
- Further public knowledge of the program through additional press releases

Thanks

Questions?

Contact Information:
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District Technician
Caldwell-Travis SWCD
1403-D Blackjack St.
Lockhart, TX 78644
512-398-2121 Ext. 3
bradford.westmoreland@tx.nacdnet.net

Discussion of Strategies for Re-engaging the Public, Landowners, and Citizens

Nikki Dictson
Texas AgriLife Extension Service

Next Steps

Nikki Dictson
Texas AgriLife Extension Service
PCWP
Steering Committee Meeting

Thursday, February 9, 2012
6:30 to 9:00 pm
Lockhart State Park, Lockhart

Thanks!
Nikki Dictson
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979-575-4424
http://pcwp.tamu.edu