



Plum Creek Watershed Partnership Progress Reporting

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GBRA Coordinated Monitors

Meeting

March 23, 2012

Plum Creek History

- Partnership started with public meetings in April 2006.
- Partnership met monthly to develop the Watershed Protection Plan (WPP) for ~ 2 yrs.
- WPP was completed in February 2008.
- Implementation has been ongoing since completion.



Plum Creek Watershed Protection Plan

- Watershed Protection Plans are **Voluntary** and have no regulatory authority
- A local Steering Committee representing all types of stakeholders throughout the watershed has directed the process
- The goals of the plan are to reduce pollution and improve water quality
- Plan includes strategies for each of the potential sources in the watershed
- Maintain Long-term sustainability



Incorporating Sustainability into Watershed Protection

- Clean Water Act Section 319(h) funds are limited and not permanent
- State funding is not currently earmarked for WPP Implementation
- WQ improvement and protection requires a long-term commitment
- Local funding fosters better local stewardship
- Local funding bestows more local control
- It's a good investment for local governments and businesses
- Lowers overall cost of watershed protection through prevention efforts



Existing Models for Sustainability

- Governmental Organizations
- Quasi-governmental Organizations
- Cooperative Extension Programs/ Universities
- Non-governmental Organizations
- Fee-based Systems
- Hybrid Models

* Credit to Roger Miranda for Sustainability Model slides



Governmental Organizations:

- Local, State, and Federal Governments sometimes allocate permanent funding for local or regional resource protection
- Example = National Estuary Programs



Quasi-governmental Organizations:

- Require Legislative Action for Creation
- Examples = River Authorities and Underground Water Conservation Districts, Councils of Governments



Non-governmental Organizations:

Tax exempt organizations under Section 501(c) of the US Tax Code

- Noted for their ability to create and sustain grass-roots stewardship
- Self-funded; usually rely on donations, grants, fund raising events
- Often viewed as providing a counterbalance to government and industry

Examples = Foundations, Trusts, etc.



Fee-based Systems:

Interlocal/Intergovernmental Contractual Arrangements

- **Participation is strictly voluntary**
- **Funded through interlocal contracts**
- **Often administered by academic or other tax exempt organization, including quasi-governmental organizations**
- **Can provide services to local or regional governments in addition to fostering stewardship**

Example = Regional Planning Partnerships; Task Forces;



Hybrid Models:

Tax exempt organizations that also receive permanent support from local, state, or the federal government

- **Very few examples available for study**
- **Example below began as governmental organization**

Example = Coastal Bend Bays Estuary Program

Sustainability Discussion in Plum Creek

- Current implementation project administration funding with 1 yr extension ends August 2012
- 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 to provide 40% match requirement
- TSSWCB has funded the project in their FY2011 Grant Application to EPA.

Interlocal Agreement and Match Structure

- Presentations were conducted for City Councils, County Commissioner Courts and Boards to update them on project implementation and providing match for this new grant.
- The interlocal agreement was reviewed by all of the legal councils for the entities
- The Long-term Sustainability Partners developed the match structure with both population and land area for each entity to determine their share of the match.

Meetings with Counties and Cities to Update and Discuss Sustainability

- January 20, 2011 – Luling City Council Meeting
- February 2, 2011 – Hays County Commissioner Mark Jones
- February 7, 2011 – Caldwell County Judge Tom Bonn
- March 1, 2011 – Sustainability meeting with partner entities
- March 2, 2011 – Umland City Council Meeting
- May 5, 2011 - Sustainability meeting with partner entities
- May 12, 2011 – City of Umland
- May 16 , 2011– Caldwell County Commissioners Court
- May 17 – Hays County Commissioners Court
- May 17 – Plum Creek Conservation District
- May 17 – City of Buda

Entities	2009 Population	Area Acres	Area (sq. Miles)	Population (50%)	Land (50%)	TOTAL
Caldwell County	36899	350080	547			
Caldwell County (In Watershed)	17488	189709	311	\$3,022	\$5,932	\$8,954
Hays County	151664	434559	679			
Hays County (In Watershed)	8,622	38628	72	\$1,490	\$1,208	\$2,698
Kyle	28,700	6000	9.38	\$4,960	\$188	\$5,148
Lockhart	14238	7,210	11.26	\$2,461	\$225	\$2,686
Luling	5502	2120	3.31	\$951	\$66	\$1,017
Buda	7784	1451	2.27	\$1,345	\$45	\$1,391
GBRA	26110	248637	388	\$4,513	\$7,775	\$12,287
PCCD	26110	248637	388	\$4,513	\$7,775	\$12,287
Uhland	457	1171	1.83	\$79	\$37	\$116
Polonia WSC	3855	23968		\$666	\$749	\$1,416
Watershed	82334	248637	388			
TOTAL	138,866	767,531		\$24,000	\$24,000	\$48,000

TOTAL ESTIMATED BUDGET = 120000

ANTICIPATED GRANT AWARD 60% OF BUDGET = 72000

ESTIMATED BUDGET BALANCE AFTER GRANT = 48000

New Watershed Coordinator Position

- The Request for Qualifications was sent out starting December 5th, 2011
- Qualifications were due by December 20, 2011 to GBRA
- Received 12 outstanding responses to the RFQ
- Responses were sent to the Selection Committee for review and ranking

New Watershed Coordinator Position

- The Selection Committee was determined from responses to nominations and interest
- The committee included:
 - Judge Tom Bonn, Caldwell County
 - Johnie Halliburton, PCCD
 - Lee Weatherford, Lockhart
 - Frank Hamilton, PCWP
 - Debbie Magin, GBRA
 - Nikki Dictson, Extension

Selection Process

- Selection Committee reviewed and ranked the responses and sent results to Debbie by January 5th 2012
- Committee met on January 10th and selected the top 4 candidates to interview on January 27, 2012
 - Developed the interview questions and ranking sheet
 - Decided to ask the candidates to develop a 5-10 minute presentation on why they are most qualified for the position

Watershed Coordinator Position

- At the end of the interviews the Selection Committee met and decided on the top candidate
- After checking references the position was offered to the top candidate on Jan 31st, 2012
- Nick Dornak from Wyoming accepted the position and started March 1, 2012.



Reporting Progress

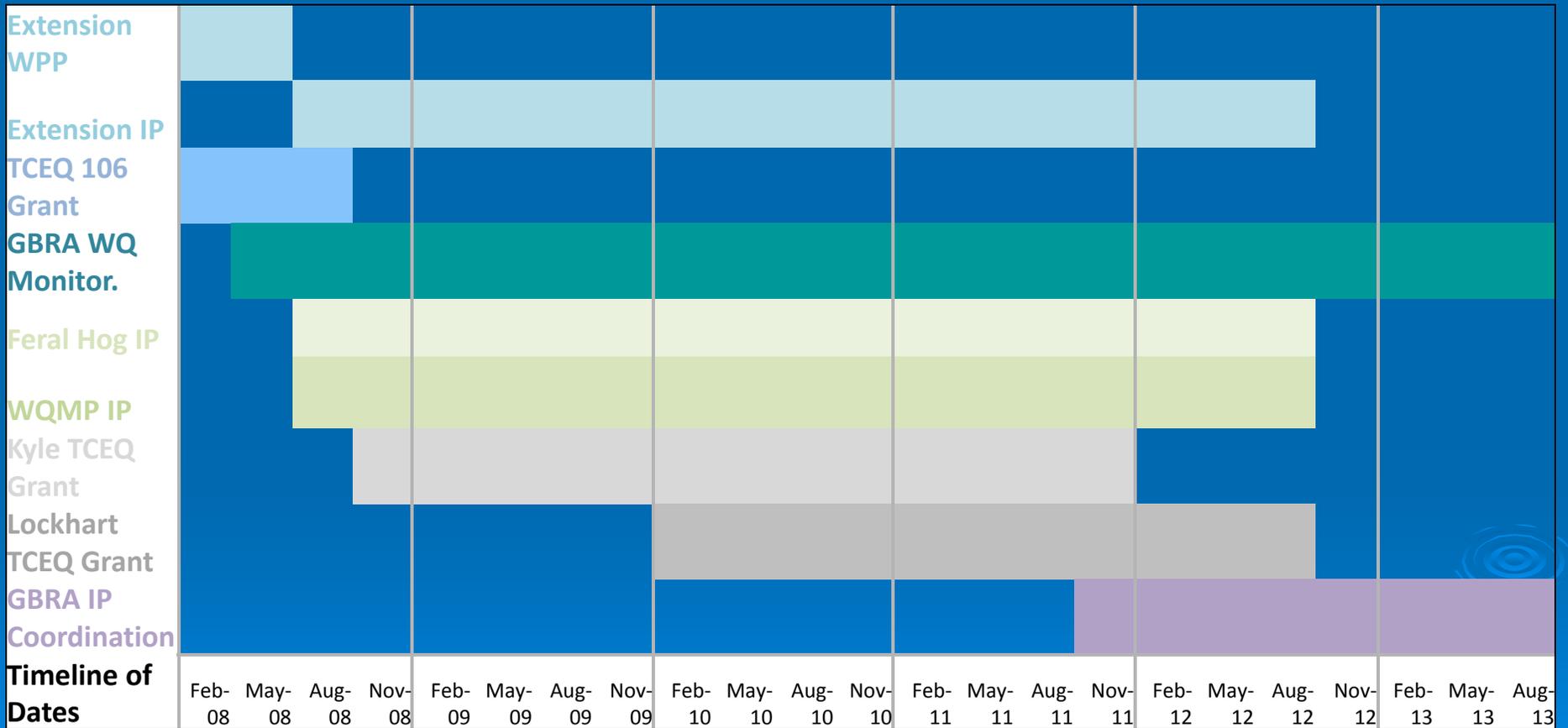
- Update presentations at quarterly meetings/newsletters.
- Adaptive management is used when new programs are started and others lose their funding.
- Watershed Protection Plan Update on implementation will be developed and distributed every 2 years.

Plum Creek Watershed Implementation Projects

(Amounts do not include match)

- Watershed Coordinator Grant (TSSWCB)
 - \$216,000
- SWQM Grant (TSSWCB)
 - \$485,545
- Urban Stormwater Control (TCEQ):
 - \$255,453 (Kyle)
 - \$275,000 (Lockhart)
- Implementing NPS Components of WPP (TSSWCB)
 - \$996,079
- SWQM II State GR (TSSWCB)
 - \$30,000
- TCEQ Outreach and Education 106 Funding
 - \$150,000

Timeline of Implementation Grants



Urban Stormwater Management Measures

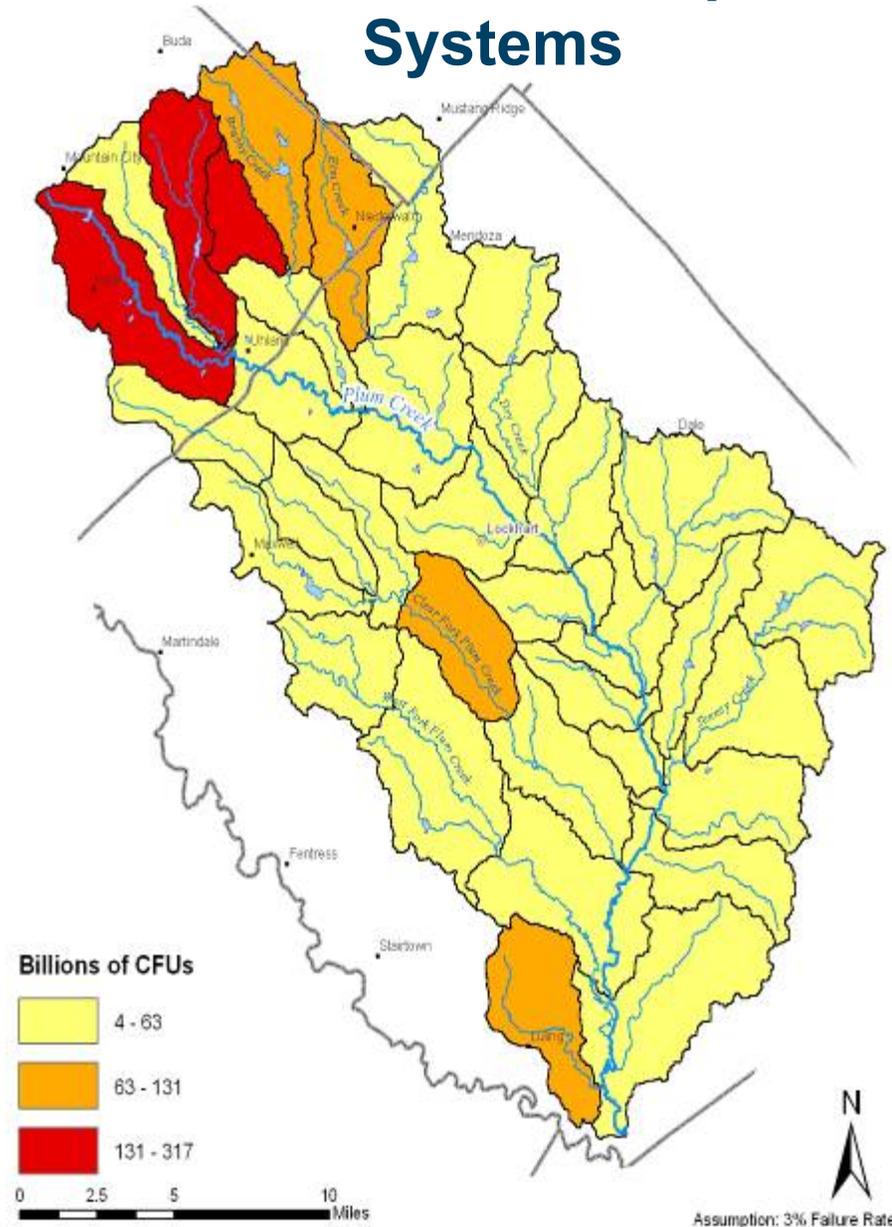
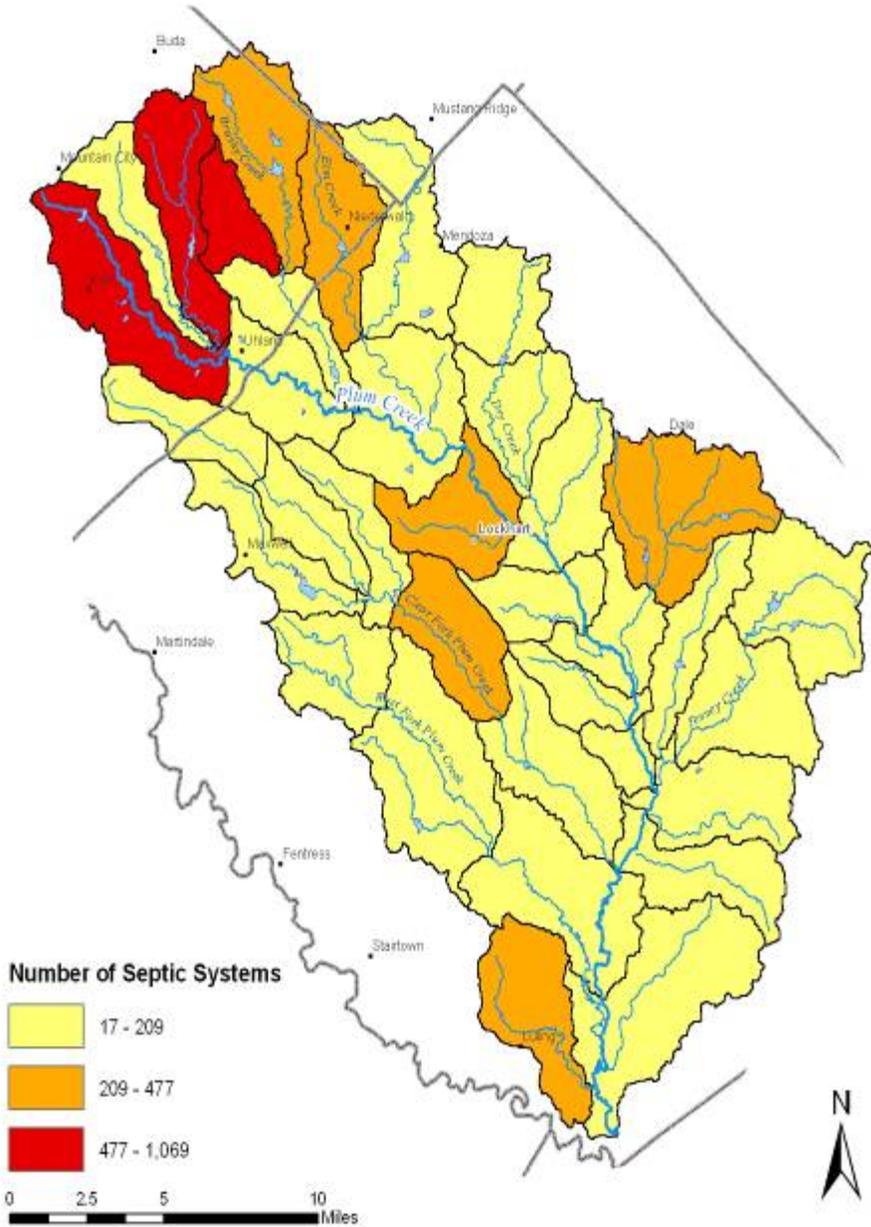
Management Measure	Responsible Party	Year			
		1-3	Status thru 11/30/2011	4-6	7-10
Urban Stormwater Management Measures					
Pet Waste Collection Stations	City of Kyle	13	16	4	4
Pet Waste Collection Stations	City of Lockhart	10	16	4	4
Pet Waste Collection Stations	City of Luling	6	6	2	2
Pet Waste Collection Stations	City of Buda	10	18	4	4
Comprehensive Urban Stormwater Assessment	City of Kyle	1	√	---	---
Retrofit Stormwater Detention Basins	City of Kyle	2	2	---	---
Initiate Street Sweeping Program	City of Kyle	---	Initiated and continuing	---	---
Comprehensive Urban Stormwater Assessment and Illicit Discharge Survey	City of Lockhart	1	In progress	---	---
Manage Urban Waterfowl Populations	City of Lockhart	---	Ongoing	---	---
Comprehensive Urban Stormwater Assessment	City of Luling	1	0	---	---
Rehabilitate Stormwater Retention Pond	City of Luling	1	0	---	---
Initiate Street Sweeping Program	City of Buda	1	Initiated and continuing	---	---

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

FACILITY NAME	Type of Disinfection	MAX PERMITTED FLOW (MGD)	PERMIT NUMBER	EFFECTIVE DATE	EXPIRATION DATE	E. coli effluent limit in permit?	E. coli effluent monitoring in permit?
KYLE	Chlorine	3/4.5	WQ0011041-002	02/04/2010	02/01/2015	no limit in either phase ¹	no monitoring requirement in either phase ¹
LOCKHART NO. 2 (FM 20 Plant)	UV	1.5	WQ0010210-002	02/04/2010	02/01/2015	126 cfu/100mL daily avg ² ; 394 cfu/100mL daily max	once per day
BUDA	Chlorine	0.6/0.95/1.5	WQ0011060-001	02/16/2010	02/01/2015	no limit in either phase ¹	no monitoring requirement in either phase ¹
LOCKHART NO. 1 (Larremore Street Plant)	Chlorine	1.1	WQ0010210-001	03/04/2010	02/01/2015	126 cfu/100mL daily avg ² ; 394 cfu/100mL daily max	once per week
LULING-NORTH	Chlorine	0.9	WQ0010582-002	05/28/2009	02/01/2014	no limit ¹	no monitoring requirement ¹
RANCH AT CLEAR FORK	Chlorine	0.33/0.7	WQ0014439-001	04/28/2008	02/01/2013	no limit in either phase ¹	no monitoring requirement in either phase ¹
NIEDERWALD (SWEETWATER)	Chlorine	0.075/0.122/0.25	WQ0014672-001	09/21/2010	03/01/2015	126 cfu/100mL daily avg ² ; 394 cfu/100mL daily max	once per quarter
RAILYARDS-PARKLAND	UV	0.35	WQ0014165-001	07/28/2005	02/01/2010	n/a – permit expired	n/a – permit expired
RAILYARDS-VILLAGE HOMES	Chlorine	0.075/0.12375	WQ0014060-001	05/11/2010	02/01/2015	126 cfu/100mL daily avg ² ; 394 cfu/100mL daily max	once per quarter
GOFORTH	Chlorine	0.0424	WQ0013293-001	04/13/2010	02/01/2015	126 cfu/100mL daily avg ² ; 394 cfu/100mL daily max	once per week
SUNFIELD	Chlorine	0.25/0.5/0.99	WQ0014377-001	08/06/2009	02/01/2014	no limit in either phase ¹	no monitoring requirement in either phase ¹
SHADOW CREEK (formerly CASTLETOP)	Chlorine	0.162/0.486	WQ0014431-001	02/22/2010	02/01/2015	no limit in either phase ¹	no monitoring requirement in either phase ¹

Septic System Use

Average Daily Potential E. coli Load from Septic Systems



Assumption: 3% Failure Rate

Potential Hillside Terrace Project



Imagery Date: Nov 25, 2008

30°03'16.23" N 97°49'56.26" W elev. 708 ft

Eye alt 3442 ft

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Survey Results

- The Annual Median Household Income is \$25,500 well below the State Annual Median Income level
- The Average Household Size is 4.089 persons (593 persons/145 households).
- The survey was approved by TWDB.
- The project qualified for 70% loan forgiveness the highest amount available

TWDB NPS Sec. 319 Project Priority List

Rank	Points	Entity	NPDES #	Population	PIF #	Project Description	Phase(s)	Phase(s) Start Date	Phase(s) Cost	Disadvantag	Green Type	GPR
NPS (Sec. 319)												
1	81	La Feria	TX0128112	8,998	9435	NPS Constructed Wetlands	PA	2/1/2012	\$1,324,050	50%	Both	\$1,324,123
1	81	La Feria	TX0128112	8,998	9435	NPS Constructed Wetlands	D	3/1/2012	\$638,314	50%	Both	\$638,349
1	81	La Feria	TX0128112	8,998	9435	NPS Constructed Wetlands	C	12/1/2012	\$5,287,237	50%	Both	\$5,287,528
2	81	La Feria	TX0128112	8,998	9484	NPS Collection Improvements	PA	2/1/2012	\$328,466	30%		
2	81	La Feria	TX0128112	8,998	9484	NPS Collection Improvements	D	3/1/2012	\$294,855	30%		
2	81	La Feria	TX0128112	8,998	9484	NPS Collection Improvements	C	12/1/2012	\$2,749,950	30%		
3	71	Buda	TX0057436	5,795	9280	Hillside Terrace Collection System	P	3/1/2012	\$30,555	70%		
3	71	Buda	TX0057436	5,795	9280	Hillside Terrace Collection System	AD	6/1/2012	\$1,108,251	70%		
3	71	Buda	TX0057436	5,795	9280	Hillside Terrace Collection System	C	1/1/2013	\$4,461,030	70%		
4	70	Brownsville	TX0055484	170,584	9304	Collection - South Colonias	P	12/31/2011	\$30,555	30%		
4	70	Brownsville	TX0055484	170,584	9304	Collection - South Colonias	D	10/31/2012	\$214,100	30%		
4	70	Brownsville	TX0055484	170,584	9304	Collection - South Colonias	C	5/31/2013	\$2,869,176	30%		
5	70	Brownsville	TX0071340	170,584	9306	Collection - North Colonias	P	9/1/2011	\$30,555	30%		
5	70	Brownsville	TX0071340	170,584	9306	Collection - North Colonias	D	12/1/2011	\$137,497	30%		
5	70	Brownsville	TX0071340	170,584	9306	Collection - North Colonias	C	4/1/2012	\$1,865,892	30%		
6	60	Buffalo Gap		393	9105	New Wastewater System	PA	1/1/2012	\$295,365	70%		

Phase(s): P-Planning; A-Acquisition; D-Design; C-Construction

Green Type: BC-Business Case; CE-Categorical Exemption; Both-Project consists of both CE and BC components

Draft Intended Use Plan Ranking in 2012

- Buda was ranked 3rd with 71 points behind two projects from La Feria, which scored 81 points
- Buda qualified for 70% loan forgiveness for the project – the highest amount available
- The first project used up the amount of loan forgiveness for the NPS List
- Project was selected as a fundable project for a TWDB CWSRF loan
- Buda received a letter in September 2011 about the project's final ranking on the State Revolving Fund IUP list and responded to pass and apply again this year.

Agricultural and Non-Domestic Animal Management Measures

Management Measure	Responsible Party	Year			
		1-3	Status	4-6	7-10
Agricultural Management Measures					
WQMP Technician (New Position)	SWCD	---	Funded through FY 2012	---	---
Livestock Water Quality Management Plans	SWCD	65	8 certified 4 in progress	70	102
Cropland Water Quality Management Plans	SWCD	6	1	9	9
Non-Domestic Animal and Wildlife Management Measures					
Feral Hog Education (New Position)	AgriLife Extension	---	Funded through FY 2012	---	---
Feral Hog Control (Equipment)	AgriLife Extension	---	\$10,000	---	---

Agricultural Water Quality Management Plans

Livestock WQMPs

Region	Subwatershed	Animal Units	Farms	Conservation Plans	Certified Plans	Plans in Development
Uhland	Region Total	1628	33	21	0	0
Lockhart	Region Total	11329	227	34	0	0
Luling	Region Total	22147	443	182	8	4
Total		35101	702	237	8	4

Cropland WQMPs

Region	Subwatershed	Cropland Acres	Farms	Conservation Plans	Certified Plans	Plans in Development
Uhland	Region Total	2873	12	4	0	0
Lockhart	Region Total	10087	44	20	0	0
Luling	Region Total	18563	86	0	0	0
Total		31523	142	24	0	1

Feral Hog Implementation Tracking

Region	Subwatershed	Total Hogs	Reduction Goals for Hogs	Online Reporting of Hogs Removed	Locations of 2010 Aerial Control
Uhland	UH-1	127	83	1	◆
	UH-2	89	58	0	◆
	UH-3	192	125	0	◆
	Region Total	408	266	1	--
Lockhart	LO-1	167	25	0	0
	LO-2	67	10	0	0
	LO-3	122	18	0	0
	LO-4	90	14	0	◆
	LO-5	96	14	0	0
	LO-6	184	28	0	0
	LO-7	207	31	0	◆
	LO-8	53	8	6	◆
	LO-9	114	17	0	0
	LO-10	159	24	0	0
	LO-11	177	27	0	0
	Region Total	1436	216	6	--
Luling	LU-1	98	40	0	◆
	LU-2	111	46	0	◆
	LU-3	87	36	0	◆
	LU-4	119	49	0	◆
	LU-5	146	60	1	◆
	LU-6	316	130	1	◆
	LU-7	130	53	21	◆
	LU-8	146	60	0	◆
	LU-9	90	37	0	◆
	LU-10	93	38	19	0
	LU-11	173	71	0	◆
	LU-12	280	115	0	0
	LU-13	131	54	0	◆
	LU-14	177	73	0	0
	LU-15	206	84	0	0
	LU-16	220	90	0	◆
	LU-17	40	16	0	◆
	LU-18	139	57	0	◆
	LU-19	239	98	14	◆
	LU-20	194	80	171	◆
	LU-21	160	66	36	0
Region Total	3295	1353	263	--	
Total		5139	1835	270	372
				642	

Outreach Activity: Broad-based and Urban Programs

Outreach Activity	Responsible Party	Year			
		1-3	Status thru 11/30/2011	4-6	7-10
Broad-Based Programs					
Texas Watershed Steward Training Sessions	AgriLife Extension	3	2	2	1
Elementary School Water Quality Project	GBRA	---	Over 1,000 kids/yr funded thru 2012	---	---
Plum Creek Watershed Protection Brochure	GBRA/ AgriLife Extension	---	7,200 distributed of 12,000	---	---
Tributary and Watershed Roadway Signage	AgriLife Extension	60	TXDOT denied	---	---
Displays at Local Events	AgriLife Extension/TSSWCB	9	11	9	9
Watershed Billboards	AgriLife Extension	Partnership decided against moving forward with this option			
Urban Programs					
Pet Waste Programs	Cities/TCEQ/ AgriLife Extension	2	4	---	---
NEMO Workshops	GBRA/TCEQ/ AgriLife Extension	2	2	---	---
Fats, Oils, and Grease Workshop		2	0	---	---
Municipal Site Assessment Visits		4	9	---	---
Urban Sector Nutrient Education	AgriLife Extension	3	3	3	3
Sports and Athletic Field Education (SAFE)	AgriLife Extension	3	1	3	3

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

Outreach Activity	Responsible Party	Year			
		1-3	Status thru 11/30/2011	4-6	7-10
Wastewater Programs					
Develop Online Training Modules	GBRA	4	4	---	---
Septic System Workshops and Assistance	AgriLife Extension/GBRA	4	7	3	3
Agricultural Programs					
Soil and Water Testing Campaigns	AgriLife Extension	3	3	3	3
Agriculture Nutrient Management Education	AgriLife Extension	3	3	3	3
Crop Management Seminars	AgriLife Extension	3	3	3	3
Agricultural Waste Pesticide Collection Days	TCEQ	1	1	No longer funded by TCEQ	No longer funded by TCEQ
Lone Star Healthy Streams –Grazing Cattle Education	AgriLife Extension	3	3	3	3
Non-Domestic Animal and Wildlife Programs					
Lone Star Healthy Streams - Feral Hog Management Workshop	AgriLife Extension	2	3	1	2
Additional Programs					
Stream and Riparian Workshops	AgriLife Extension	2	2	1	2
Illegal Dumping Site Targeted Cleanup	GBRA	3	12	3	3
Community Stream Cleanup Events		2	4	3	3
Rainwater Harvesting Education/ Demonstration	AgriLife Extension	2	2	1	2

Watershed Protection Plan Update

- The document was updated with changes and additional information.
- On February 7, the update was provided to stakeholders to start the 21-day comment period ended Feb. 28th, 2012.
- Comments were discussed at the February 9th quarterly partnership Meeting for approval.
- Publish, print, and distribute update in March/April

Thanks!

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