

Project Closeout

Final Project Report

Date: September 30, 2016 Reporting Period: December 11, 2012-September 30, 2016
Project Title: Lower Laguna Madre Regional Treatment Wetland System-Phase I
GLO Contract No: 13-160-000-7260 Agreement # 06-S130654
Sub-grantee: Texas A&M AgriLife Research/Texas Water Research Institute
Project Manager: Jaime Flores Telephone #: 956-969-5607
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- **Provide a brief description of the project goals.**
 - **Design and construct a five-acre wetland system at Ramsey Park.**
 - **Conduct at least one education and outreach sessions annually to highlight the benefits and advantages of the development and implementation of the phased approach for a regional wetland system.**

- **Identify whether the original goals of the project was met or, if not, why the goals was modified.**
 - **The City of Harlingen (COH) was able to construct a water transportation feature that resembles a river between Pond #2 and 3, expanding the wetland area by 9,150 sq. ft., Pond # 3 was expanded by 9,600 sq. ft., Pond #3a is a new pond that was dug out and constructed for a total of 1,800 sq. ft. and Pond #4 was expanded by 5,750 sq. ft. & 4a is a new pond that was dug out and constructed for a total of 2,000 sq. ft.. Additionally, a Bio-retention Basin to capture and treat stormwater was constructed in parking lot as well as new parking lot. The Basin measures 100 ft. long x 8 ft. wide and 4 ft. deep for a total of 3,200 sq. ft.. The COH was able to leverage city funds and enter into an agreement with Cameron County to construct the parking lot. The total cost of the parking lot was \$180,000.**
 - **The TWRI Project Manager conducted a total 6 E&O Sessions. Jaime Flores and Javier Mendez spoke at the Arroyo Colorado Audubon Society meeting to discuss the wetlands in February 2015 and Jaime Flores spoke to the South Texas Master Naturalists in March 2014, 2015 and 2016. TWRI & the COH hosted 2 E&O Sessions at Ramsey Park on June 25, 2016 and September 28, 2016. The project manager was able to utilize the Arroyo Colorado Watershed Partnership Habitat Workgroup and Steering Committee meetings discuss the Wetland Project with Arroyo stakeholders, answer questions about the project, gather suggestions and feedback about the project. The Ramsey Park Wetland Project was also incorporated into the Update of the ACWPP as a management measure for WWTF effluent reuse as well as part of the Regional Wetland system for the Arroyo Colorado.**

- **Summarize all significant project milestones, including dates for each action.**
 - **Design and construct a five-acre wetland system at Ramsey Park.**
 - **Percolation Test conducted on soils at Ramsey Park by TAMUK October 25-31, 2015**
 - **Conduct survey of Ramsey Park September 10, 2015 and September 16-15, 2015. Survey complete on December 2, 2015.**
 - **COH begin preparing Parking lot for construction on December 1, 2015.**

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- Wetland Design and Bio-retention Basin design complete on December 10, 2015
 - Construction of Bio-retention Basin begins December 15, 2015 and is completed on January 20, 2106.
 - Construction of Parking lot begins January 21, 2016 and is completed on March 2, 2016.
 - Grubbing and clearing of wetland expansion areas begins March 28, 2016 and continues through May 24, 2016.
 - COH purchases liner May 26, 2016 and is delivered on June 24, 2016.
 - Liner installation begins in Pond # 4 on July 12, 2016
 - Liner installation completed on September 24, 2016
 - COH complete installation of liner, rock material and soil on September 30, 2016.
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- Identify any problems or obstacles encountered and remedial action taken (if any).
 - None encountered.
 - Include digital photos and any material that promotes your project success (news articles, flyers, etc.).
 - The following materials were generated for the project;
 - Survey of Ramsey Park
 - Construction Plans for wetland expansion
 - Construction Plans for the Bio-retention Basin
 - Press release announcing the closure of Ramsey Park to construct the parking lot
 - Press release announcing the June 25, 2016 E&O Workshop. The release was run in AgriLife News, The Valley Morning Star and the Brownsville Herald.
<http://today.agrilife.org/2016/06/18/parking-lots-workshop/>
<https://today.agrilife.org/2016/06/15/arroyo-colorado-watershed-partnership-will-hold-june-25-workshop-for-wetlands-project/>
 - The Valley Morning Star ran an additional story about the workshop after it was complete in July
 - TWRI ran a story about the workshop it their Conservation Matters July 2016 Publication;
http://twri.tamu.edu/publications/conservation_matters/2016/july/volunteers-help-complete-self-draining-parking-lot-in-arroyo-colorado-watershed/

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- **The ACWP posted the story on their Face Book page and posted the article on the ACWP Website and received numerous likes**
- **Construction report for the Bio-retention Basin and parking lot**
- **Construction Report for the Wetland Construction/expansion**
- **Report on the 2 E&O Workshops conducted at Ramsey Park**
- **AC Habitat Workgroup summaries discussing the Project**
- **Power Point on the Bio-retention Basin used at the Arroyo Colorado Audubon Society and South Texas Master Naturalists Meetings**
- **Power Point on the wetland plants to be purchased and installed by TAMUK**

Attach all outstanding deliverables.