

Year 1: Status of I-Plan Activities for Guadalupe River Above Canyon Lake

Stakeholders met in December 2012 to discuss and evaluate the progress of I-Plan implementation. The following tables summarize the status of activities for each measure described in the I-Plan.

Abbreviations

BMPs	best management practices	OSSF	on-site sewage facilities
CWA	Clean Water Act	TCEQ	Texas Commission on Environmental Quality
NA	not applicable	TxDOT	Texas Department of Transportation
NPS	nonpoint source	TMDL	total maximum daily load
UGRA	Upper Guadalupe River Authority		

Management Measures 1, 2, and 3: Reduce bird feeding at Louise Hays Park and Kerrville-Schreiner Park

Install bird exclusion/deterrent devices on the Highway 16 and Loop 534 bridges over the water

Manage the waterfowl population at Louise Hays Park and Kerrville-Schreiner Park

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
UGRA	<ul style="list-style-type: none"> Apply for and receive funding to reduce bird feeding 	<ul style="list-style-type: none"> Amount of funding received 	<ul style="list-style-type: none"> Funding for this management measure included in the Bacteria Reduction Plan for the Upper Guadalupe River which is a CWA §319(h) funded project through TCEQ NPS. Total project budget is \$475,201.
UGRA, City of Kerrville	<ul style="list-style-type: none"> Distribute educational materials to reduce bird feeding 	<ul style="list-style-type: none"> Number of materials distributed 	<ul style="list-style-type: none"> Management measure will primarily be addressed in year 2 and 3 of project. Annual Easter press release issued in March 2012 urged citizens not to feed waterfowl.
UGRA	<ul style="list-style-type: none"> Continue water quality monitoring 	<ul style="list-style-type: none"> Number of water quality samples taken Percentage of water quality samples below contact recreation standard 	<ul style="list-style-type: none"> During FY12 a total of 96 E. coli bacteria samples were collected. FY12 mainstem Guadalupe River E. coli bacteria levels were primarily below the single sample contact recreation standard, but concentrations on tributaries were much higher due to low flow or stagnant conditions.

UGRA	<ul style="list-style-type: none"> • Conduct animal surveys at local parks and where implementation measures have been installed 	<ul style="list-style-type: none"> • Number of animal surveys completed • Reduction in number of animals as a result of implementation measures 	<ul style="list-style-type: none"> • 12 morning and 12 afternoon surveys were conducted in FY12. • Waterfowl counts at Louise Hays Park in FY12 were lower (about 10 per visit) than previous years (about 35 per visit). • Waterfowl counts at Kerrville Schreiner Park were similar to previous years.
Kerr County, City of Kerrville	<ul style="list-style-type: none"> • Removal of waterfowl from Louise Hays Park and Kerrville-Schreiner Park 	<ul style="list-style-type: none"> • Number of waterfowl successfully relocated to Kerr County Animal Control 	<ul style="list-style-type: none"> • Management measure will primarily be addressed in year 2 and 3 of project.
UGRA, with assistance from TxDOT and the City of Kerrville	<ul style="list-style-type: none"> • Secure funding and begin design of the bird exclusion/deterrent devices 	<ul style="list-style-type: none"> • Amount of funding secured • Complete design of bird exclusion/deterrent devices 	<ul style="list-style-type: none"> • Funding for this management measure included in the Bacteria Reduction Plan for the Upper Guadalupe River which is a CWA §319(h) funded project through TCEQ NPS. Total project budget is \$475,201. • Bird deterrent structure design completed, project was publically bid, successful bidder entered into a contract with UGRA and installation of bird deterrent structures is scheduled to begin in December 2012.

Management Measure 4: Reduce human contributions through ongoing lateral sewage line replacement, sewer inspection, and rehabilitation, and ongoing septic system plan review and registration

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
City of Kerrville	<ul style="list-style-type: none"> • Conduct improvements to wastewater collection systems 	<ul style="list-style-type: none"> • Amount spent to improve collection system • Lateral feet of collection line system repaired or replaced • Number of lift stations rehabilitated/improved • Number of sanitary manholes replaced • Number of broken customer cleanouts repaired • Footage of gravity main inspected, smoked tested, and cleaned 	<ul style="list-style-type: none"> • \$7,938,219.60 spent on improvements • 25,660 lateral feet of collection line repaired/replaced • 1 lift station replaced • 15 manholes replaced • 59 manholes rehabilitated • 9 city cleanouts replaced • 276 customer service cleanouts repaired • 54,481 lateral feet inspected through CCTV camera • 190,255 lateral feet cleaned/vacuumed • 1,698 lateral feet root sawed

Kerr County	<ul style="list-style-type: none"> Continue OSSF plan review and registration 	<ul style="list-style-type: none"> Number of septic systems inspected Number of septic systems repaired or replaced Number of septic systems reviewed and registered 	<ul style="list-style-type: none"> Management measure will primarily be addressed in Year 2 and 3.
UGRA and Kerr County	<ul style="list-style-type: none"> Map the OSSF priority area and mail residents in the priority area a Homeowner's Septic System Guide and respond to any homeowner requests for an inspection 	<ul style="list-style-type: none"> Number of pamphlets distributed Number of homeowners requesting an inspection from Kerr County Number of septic systems repaired or replaced 	<ul style="list-style-type: none"> OSSF priority area as designed and systems within the priority area were identified. Development and distribution of homeowner's septic system guide is expected to be addressed in Year 2 and 3.

Management Measure 5: Implement an education program for pet owners and install pet waste stations at public parks

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
UGRA	<ul style="list-style-type: none"> Secure funding to develop pet waste education campaign and develop educational campaign 	<ul style="list-style-type: none"> Amount of funding secured Materials created for educational campaign 	<ul style="list-style-type: none"> Funding for this management measure included in the Bacteria Reduction Plan for the Upper Guadalupe River which is a CWA §319(h) funded project through TCEQ NPS. Total project budget is \$475,201. Management measure will primarily be addressed in Year 2 and 3 of project.
City of Kerrville	<ul style="list-style-type: none"> Potential distribution of education materials 	<ul style="list-style-type: none"> Number of education materials distributed 	<ul style="list-style-type: none"> Management measure will primarily be addressed in Year 2 and 3 of project.
UGRA, possibly Kerr County and City of Kerrville	<ul style="list-style-type: none"> Install pet waste container, signs, and collection bins in area parks Implement program to measure effectiveness of pet waste stations 	<ul style="list-style-type: none"> Number of pet waste containers installed Number of signs installed Number of collection bins installed Results of effectiveness monitoring program 	<ul style="list-style-type: none"> 12 pet waste stations have been installed. Design for 10 additional stations has been developed. Pet waste stations in Flat Rock Park are monitored weekly and generally collect 80-100 pounds of waste/month. Since November 2010, 2,700 pounds have been collected.
UGRA	<ul style="list-style-type: none"> Evaluate results of areas with and without collection systems 	<ul style="list-style-type: none"> Percentage of change in people's behavior before and after installation of pet waste containers, signs, and collection bins 	<ul style="list-style-type: none"> Initial public awareness surveys conducted August 2012 indicated little public knowledge of sources that contribute to bacteria levels in the Guadalupe River or of any groups working to address the issues. Followup evaluation methods to be developed in Year 2 and 3.

Management Measure 6: Reduce contributions from general urban runoff through street sweeping, river clean ups, and storm water education programs

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
UGRA	<ul style="list-style-type: none"> Secure funding to develop educational campaign 	<ul style="list-style-type: none"> Amount of funding secured Materials created for educational campaign 	<ul style="list-style-type: none"> Funding for this management measure included in the Bacteria Reduction Plan for the Upper Guadalupe River which is a CWA §319(h) funded project through TCEQ NPS. Total project budget is \$475,201. Interactive kiosk to teach users about non point source pollution and storm water runoff has been purchased and is planned to be placed at Riverside Nature Center and other public venues in 2013.
City of Kerrville	<ul style="list-style-type: none"> Conduct street sweeping 	<ul style="list-style-type: none"> Miles of streets swept Frequency of street sweeping 	<ul style="list-style-type: none"> City of Kerrville conducted approximately 488 hours of street sweeping in FY12.
UGRA	<ul style="list-style-type: none"> Conduct up to 2 river clean ups 	<ul style="list-style-type: none"> Pounds of trash and debris removed 	<ul style="list-style-type: none"> 2012 UGRA Annual River Clean collected 11,165 of trash and debris UGRA annual river crossing clean up program removed approximately 16,170 pounds of trash and debris in FY12.

Control Action 1: Monitor and report E. coli concentrations from WWTFs

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
WWTFs	<ul style="list-style-type: none"> Monitor and report bacteria data as required by individual wastewater permits to TCEQ 	<ul style="list-style-type: none"> Number of monitoring events submitted Percentage of monitoring events below the water quality standard Repairs or items corrected reported to TCEQ 	<ul style="list-style-type: none"> NA, Kerrville WWTF has zero contribution due to its downstream location and Hill Country Camp permit is not currently operational
TMDL Program	<ul style="list-style-type: none"> Review WWTF water quality data, summarize and present information to stakeholders at yearly meetings 	<ul style="list-style-type: none"> Percentage of results reviewed and presented at yearly meetings 	<ul style="list-style-type: none"> NA