ARIZONA COUNTY

BOARD OF SUPERVISORS AGENDA ITEM REPORT

Requested Board Meeting Date: May 21, 2019

Title: Approval of a Riparian Habitat Mitigation In-Lieu Fee Proposal for Placement of a Water Utility Line for Harrison Road (District 4)

Introduction/Background:

Chapter 16.30 of the Pima County Floodplain Management Ordinance No. 2010-FC5 (Ordinance) requires mitigation when cumulative disturbance of more than 1/3 acre of mapped riparian habitat occurs. If a project site contains suitable area(s) for mitigation, restoration, or enhancement, then on-site mitigation is required in accordance with the adopted Regulated Riparian Habitat Mitigation Standards and Implementation Guidelines. The Ordinance contains a provision for mitigation banking when on-site mitigation is not feasible. All off-site mitigation proposals require Flood Control District Board of Directors (Board) review and approval.

Discussion:

The City of Tucson Water Department (Tucson Water) proposes to install approximately 4,600 linear feet of 12-inch diameter water transmission main within the South Harrison Road right-of-way (ROW) from West Grantham Street south to East Camino Aurelia. The property is mapped within Regulated Riparian Habitat (RRH) and is classified in two different habitat types; Xeroriparian Class C and Xeroriparian Class D. The disturbance from this project is 0.71 acres, therefore requires a Riparian Habitat Mitigation plan (RHMP). McGann & Associates Inc. was hired by Tucson Water to prepare an RHMP. Tucson Water will mitigate for the disturbance by paying a fee in-lieu of on-site mitigation. The Riparian Habitat Mitigation In-Lieu Fee Proposal will contribute a fee of \$9,896.64.

Conclusion:

Acceptance of mitigation banking funds in-lieu of on-site mitigation is allowed under the Ordinance. Contributions to the mitigation bank for disturbance of this habitat will provide funds to be used toward purchase of high value resources or towards restoration of degraded riparian habitat within Pima County.

Recommendation:

The ILF proposal presented conforms with the Ordinance and, as such, the District recommends approval.

Fiscal Impa	act:				
\$9,894.64					
Board of S	upervisor Distric	t:			
□ 1	□ 2	□ 3	⊠ 4	□ 5	☐ AII
Departmen	t: Regional Flood t Director Signatur unty Administrator ministrator Signatu	re/Date:	Shula Caled	elephone: 724-460	0 1/29/19 1-/29/19



FLOOD CONTROL

DATE: April 25, 2019

TO:

Flood Control District Board of Directors

FROM: Suzanne Shie

SUBJECT:

Approval of a Riparian Habitat Mitigation In-Lieu Fee Proposal for Placement of a

Water Utility Line for Harrison Road (District 4)

Background

Chapter 16.30 of the Pima County Floodplain Management Ordinance No. 2010-FC5 (Ordinance) requires mitigation for mapped riparian habitat disturbances greater than 1/3 acre. If a project site contains suitable area(s) for riparian restoration, enhancement, or establishment, onsite mitigation occurs in accordance with the adopted Regulated Riparian Habitat Mitigation Standards and Implementation Guidelines. The Ordinance contains a provision for mitigation banking, when on-site mitigation is not feasible. All offsite mitigation proposals require Flood Control District Board of Directors (Board) review and approval.

Report

The City of Tucson Water Department (Tucson Water) proposes to install approximately 4,600 linear feet of 12-inch diameter water transmission main within the South Harrison Road right-of-way (ROW) from West Grantham Street south to East Camino Aurelia (Exhibit A). The property is mapped within Regulated Riparian Habitat (RRH) and is classified in two different habitat types; Xeroriparian Class C and Xeroriparian Class D (Exhibit B). The disturbance from this project is 0.71 acres, therefore requires a Riparian Habitat Mitigation plan (RHMP). McGann & Associates Inc. was hired by Tucson Water to prepare an RHMP. The development of the rights of way and extension of Harrison Road is unknown at this point in time. Additionally the exact alignment for the pavement has not been determined consequently designating mitigation areas for onsite planting could be relocated in the future. As a result, the Tucson Water will mitigate for the disturbance by paying a fee in-lieu of on-site mitigation. The Riparian Habitat Mitigation In-Lieu Fee Proposal will contribute a fee of \$9,896.64 (Sheet R-1 of Exhibit C).

Recommendation

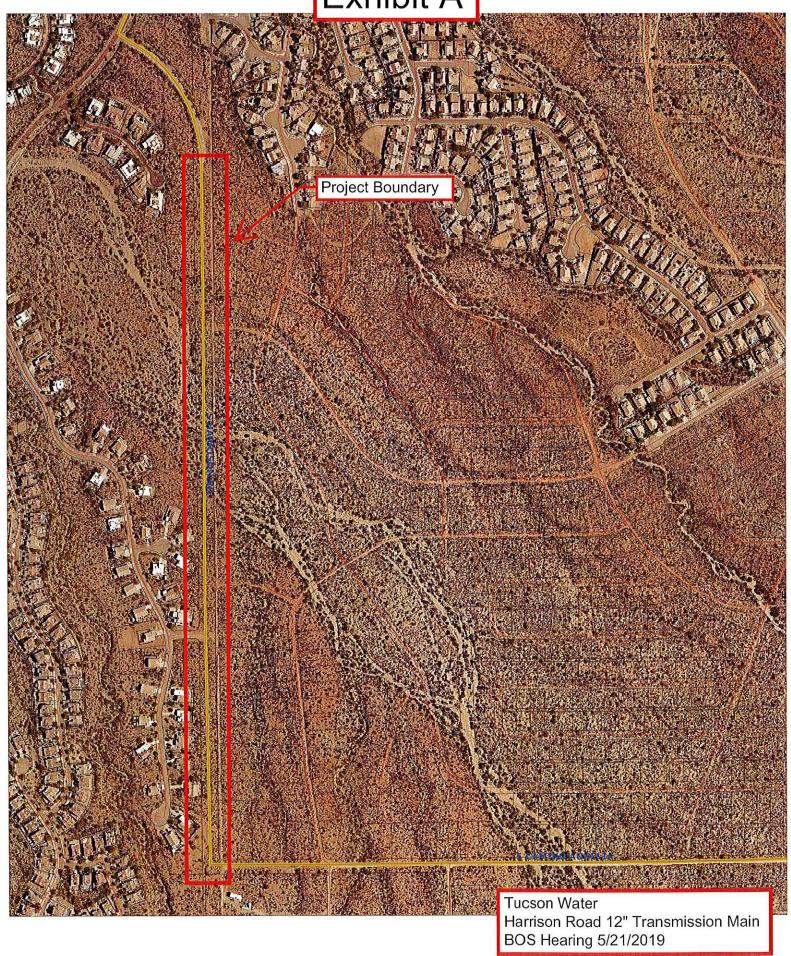
Acceptance of mitigation banking funds in-lieu of onsite mitigation is allowed under the Ordinance. Contributions to the mitigation bank for disturbance of this habitat will provide funds to be used toward purchase of high value resources or towards restoration of degraded riparian habitat within Pima County

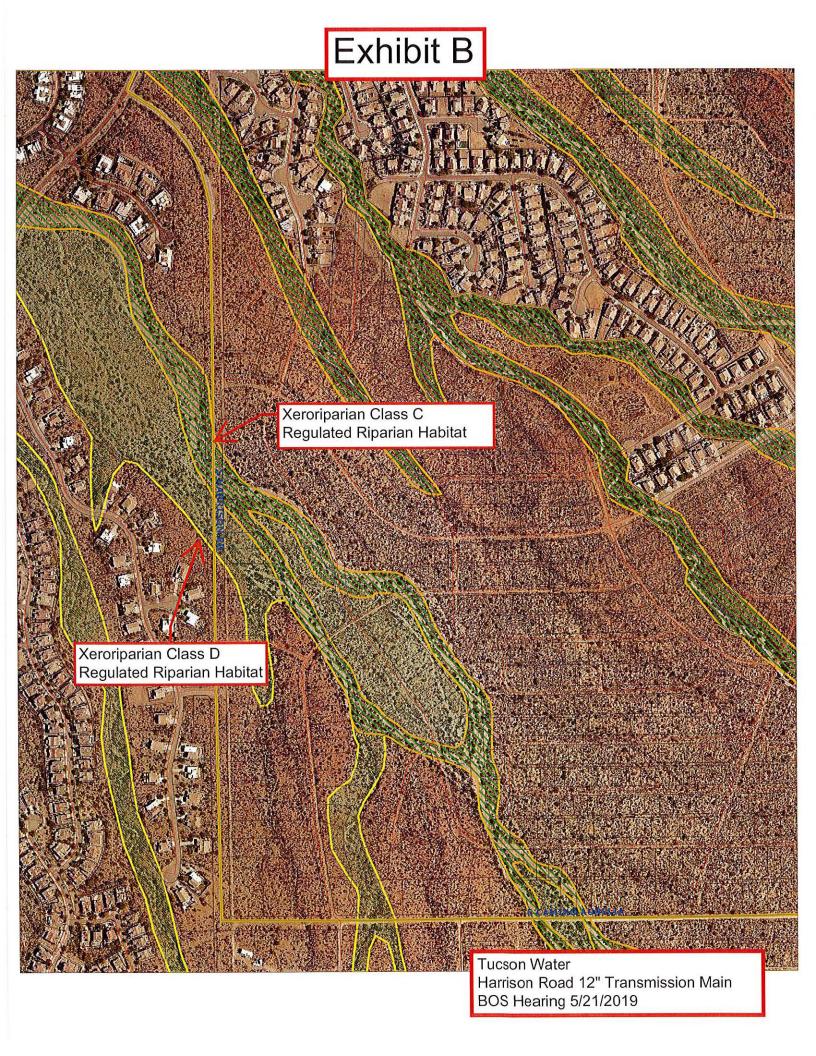
Attachments:

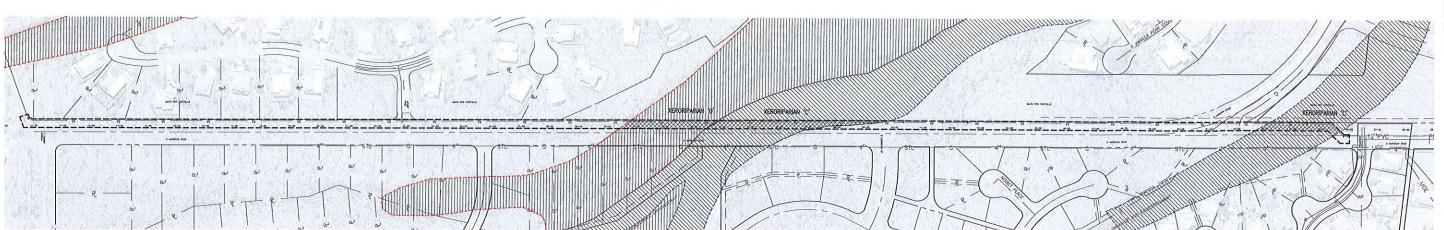
Exhibit A - Project Location

Exhibit B - Project Site - Riparian Classification Map Exhibit C - Mitigation Banking In-lieu Fee Proposal

Exhibit A

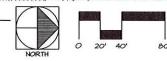




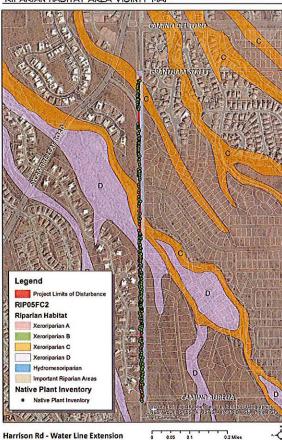


RIPARIAN HABITAT AREA MAP

SCALE: I" = 150'-0"



RIPARIAN HABITAT AREA VICINTY MAP



RIPARIAN HABITAT AREA CALCULATIONS

AREA DESCRIPTION	SIZE (ACRES)
TOTAL PROJECT AREA*	9.55
TOTAL DISTURBED AREA	3.2
TOTAL XERORIPARIAN C AREA ON SITE**	3.1
TOTAL XERORIPARIAN D AREA ON SITE**	1.2
TOTAL DISTURBED XERORIPARIAN C AREA ON SITE	051
TOTAL DISTURBED XERORIPARIAN D AREA ON SITE	0.21
TOTAL DISTURBED XERORIPARIAN C AREA / TOTAL XERIPARIAN C AREA	16.4%
TOTAL DISTIRBED XERORIPARIAN D AREA / TOTAL XERIPARIAN D AREA	17.5%

*PROJECT AREA INCLUDES HARRISON RIGHT OF WAY BETWEEN GRANTHAM AND E CAMINO AURELIA.

** TOTAL AREA DOES NOT INCLUDE PRE-MAP DISTURBANCES (RIPOSFCZ), PRE-MAP DISTURBANCES WERE NOT LOCATED WITHIN PROPOSED DISTURBED AREA.

Xeroriparian Clas	ss C Habitat (XC)**	Optio	n to Basic Rec (Xeroriparian)				
Total mapped habitat onsite		3.10	Acre(s)			•		
Area of disturbed RRH			Acre(s)					
Area of mitigation			Acre(s)					
Total number of trees required (45 trees/ac)	45		Trees	18	Trees			
Total number of shrubs required (70 shrubs/ac)	70	35.7	Shrubs	29	Shrubs			
Xeroriparian Clas	s D Habitat i	XDI**						
Total mapped habitat onsite		1.20	Acre(s)			•		
Area of disturbed RRH			Acre(s)					
Area of mitigation			Acre(s)					
Total number of trees required (30 trees/ac)	30		Trees	5	Trees			
Total number of shrubs required (x shrubs/ac)*	81	17.01	Shrubs	14	Shrubs			
ILF cal	culation							
15-gallon trees	15		\$1,116.67					
5-gallon trees	14		\$384.00					
5-gallon shrubs	27		\$609.43					
1-gallon shrubs	26		\$305.50					
Hydroseed		Acre(s)	\$2,474.35					
		Acro(s)	\$724.68					
	0.71	Acre(s)	\$1,087.02					
5-year maintenance			\$3,195.00					
5-year maintenance Monitoring Report	3	at years 1, 3 & 5						
5-year maintenance Monitoring Report	3	at years 1, 3 & 5	\$9,896.64					
Infigation 5-year maintenance Monitoring Report Total Cost Average Costs (Costs shown for plants are installed costs)	3 15-gallon tree	5-gallon tree		1-gallon shrub	Hydroseed (per ac)	Irrigation (per acre)	5-year maintenance (per acre) ²	5-year monitoring (per scre per year)

*determined by onsite plant survey.

Guideline plant density requirements have been provided. The applicant may choose to perform an onsite plant survey in accordance with TECH-116 to determine plant *Option to besic requirement for Xeroriparian Classes A-D: Reduce total plant quantity by 20% if 100% 15 gallon trees and 100% 5 gallon shrubs are used.

*Irrigation calcutated as 30% the cost of plant material (trees and shrubs)

**Maintenance calcutated as 45% the cost of plant material (trees and shrubs)

LINE TYPE LEGEND SEE COVER SHEET 6-1 FOR CALCULATIONS



HARRISON ROAD 12" TRANSMISSION MAIN



RIPARIAI	N HAE	BITAT	MITI	GATIC	N
PLAN	AND	IN-I	LIEU	FEE	
	CALC	ULATI	ION		

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SRM	2/19	SR3055	SHEET 18 OF 20
DRIMN BY:	DUE	SOLE	
MV	11/18	MERTS: N.T.S	PLAN NO
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SRM	11/18	HORZ: NTS	1-030-2017

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Il or click Arizona8tl.com	NO	BY	DATE	REVISION	APPR	DATE