



BOARD OF SUPERVISORS AGENDA ITEM REPORT

Requested Board Meeting Date: 3/7/2023

*= Mandatory, information must be provided

Click or tap the boxes to enter text. If not applicable, indicate "N/A".

***Title:**

Approval of a Riparian Habitat Mitigation Plan Located at 3714 East El Toro Road, Located Regulated Riparian Habitat

***Introduction/Background:**

Chapter 16.30 of the Pima County Floodplain Management Ordinance No. 2010-FC5 (Ordinance) requires mitigation for disturbance of Regulated Riparian Habitat (RRH) exceeding 1/3 of an acre. A riparian habitat mitigation plan (RHMP) approved by the Flood Control District Board of Directors (Board) is required for disturbance of RRH classified as Important Riparian Area (IRA) habitat exceeding 1/3 of an acre and that exceeds 5 percent of the habitat on the property. The adopted Regulated Riparian Habitat Mitigation Standards and Implementation Guidelines (Guidelines) govern the type, amount, and location of required mitigation.

***Discussion:**

The owners, Thomas and Fredricka Martin, are applying for a floodplain use permit to place a manufactured home on the property located at 3714 East El Toro Road. The property is mapped within RRH classified as IRA with an underlying classification of Xeroriparian C. Upon review of the floodplain use permit, staff determined that portions of the RRH had been previously disturbed over a period of several years and concluded the property had RRH disturbance that exceeded a 1/3 acre. The unpermitted RRH disturbance, 18,537 square feet (0.43 acres), requires a Riparian Habitat Mitigation Plan.

***Conclusion:**

All onsite mitigation planting will occur per the RHMP, which shows the type, number, and planting location of the vegetation that will compensate for riparian disturbance. The mitigation areas are located within existing RRH and within disturbed areas on the property that have the space to support new plantings. Any future development will require submittal of a separate mitigation plan.

***Recommendation:**

The Riparian Habitat Mitigation Plan conforms to the Ordinance and the Guidelines, and, as such, the District recommends approval.

***Fiscal Impact:**

n/a

***Board of Supervisor District:**


1 2 3 4 5 All


Department: Regional Flood Control District


Telephone: (520) 724-4600

Contact: Patricia Gilbert

Telephone: (520) 724-4606

Department Director Signature:  Date: 2/10/23

Deputy County Administrator Signature:  Date: 2/14/2023

County Administrator Signature:  Date: 2/14/2023

DATE: February 8, 2023

TO: Flood Control District Board of Directors

FROM: Eric Shepp, P.E.
Director

**SUBJECT: Approval of a Riparian Habitat Mitigation Plan Located at 3714 East El Toro Road,
Located Regulated Riparian Habitat (District 2)**

Background

Chapter 16.30 of the Pima County Floodplain Management Ordinance No. 2010-FC5 (Ordinance) requires mitigation for disturbance of Regulated Riparian Habitat (RRH) exceeding 1/3 of an acre. A riparian habitat mitigation plan (RHMP) approved by the Flood Control District Board of Directors (Board) is required for disturbance of RRH classified as Important Riparian Area (IRA) habitat exceeding 1/3 of an acre and that exceeds 5 percent of the habitat on the property. The adopted *Regulated Riparian Habitat Mitigation Standards and Implementation Guidelines (Guidelines)* govern the type, amount, and location of required mitigation.

Report

The owners, Thomas and Fredricka Martin, are applying for a floodplain use permit to place a manufactured home on the property located at 3714 East El Toro Road (Exhibit A). The property is mapped within Regulated Riparian Habitat (RRH) classified as IRA with an underlying classification of Xeroriparian C (Exhibit B). Upon review of the floodplain use permit, staff determined that portions of the RRH had been previously disturbed over a period of several years and concluded the property had RRH disturbance that exceeded a 1/3 acre. The unpermitted RRH disturbance, 18,537 square feet (0.43 acres), requires a Riparian Habitat Mitigation Plan (RHMP).

Mr. and Mrs. Martin have chosen to mitigate onsite and hired Karen Cesare, with Novak Environmental, Inc. to prepare a RHMP (Exhibit C). All onsite mitigation planting will occur per the RHMP, which shows the type, number, and planting location of the vegetation that will compensate for riparian disturbance. The mitigation areas are located within existing RRH and within disturbed areas on the property that have the space to support new plantings. Any future development will require submittal of a separate mitigation plan.

Recommendation

The RHMP conforms to the Ordinance and the Guidelines, and, as such, the District recommends approval.

Exhibit A – Project Location

Exhibit B – Project Site – Riparian Classification Map

Exhibit C – Riparian Habitat Mitigation Plan

Exhibit A

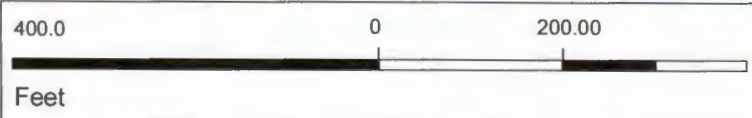


- Legend**
- Washes - All
- Unknown Discharge
 - 100-500 CFS
 - 500-1000 CFS
 - 1000-2000 CFS
 - 2000-5000 CFS
 - 5000-10000 CFS
 - Over 10000 CFS
- Washes Greater Than :



3714 East El Toro Road

2/7/2023



This map is static output from an internet mapping site and no warranty is expressed or implied as to the accuracy, reliability, currency or completeness of the data, and is for reference only

Exhibit B

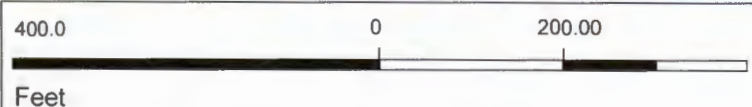


- Legend**
- Washes - All**
- Unknown Discharge
 - - 100-500 CFS
 - - 500-1000 CFS
 - - 1000-2000 CFS
 - - 2000-5000 CFS
 - - 5000-10000 CFS
 - - Over 10000 CFS
- Washes Greater Than :
- Riparian Habitat - Pima Effective 10/20/2005**
- Xeroriparian A
 - Xeroriparian B
 - Xeroriparian C
 - Xeroriparian D
 - Hydromesoriparian or Me
 - IRA - Xeroriparian A
 - IRA - Xeroriparian B
 - IRA - Xeroriparian C
 - IRA - Xeroriparian D
 - IRA - H
 - Important Riparian Areas



3714 East El Toro Road

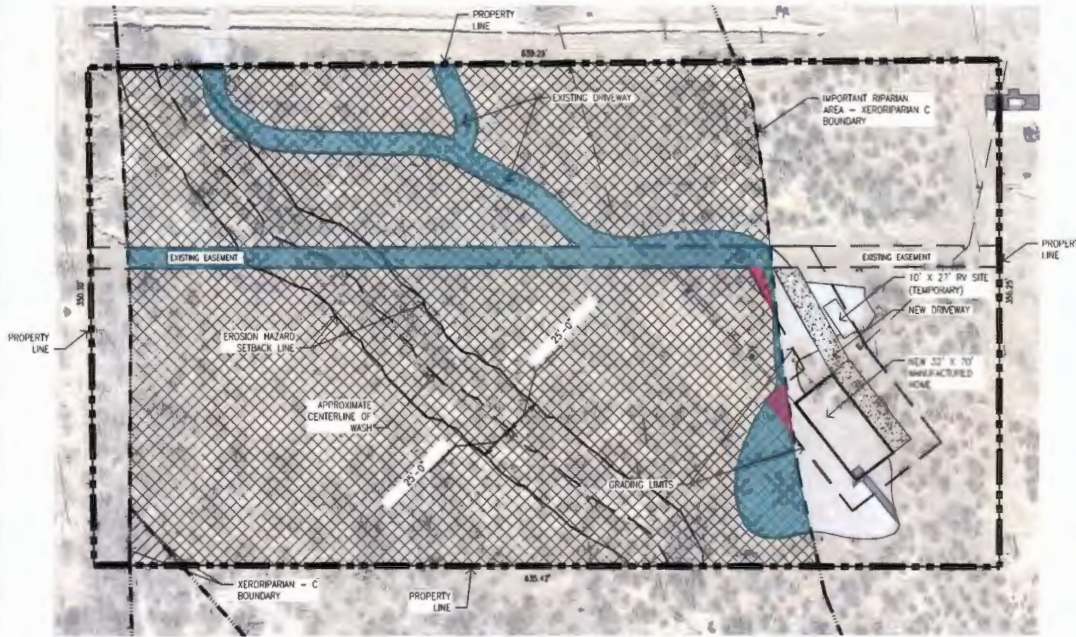
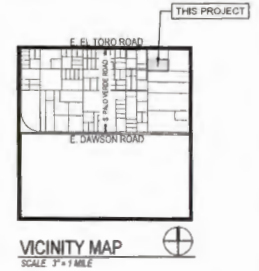
2/7/2023



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Exhibit C

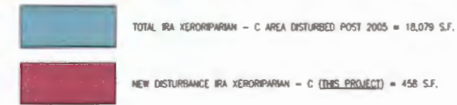
MARTIN RESIDENCE RIPARIAN HABITAT MITIGATION PLAN -- "POST 2005" IMPACTS TO REGULATED RIPARIAN HABITAT (RRH) & NEW IMPACTS TO RRH FROM NEW SITE CONSTRUCTION (THIS PROJECT)



RIPARIAN AREA



IMPORTANT RIPARIAN AREA DISTURBANCE POST 2005



TOTAL DISTURBED RIPARIAN AREA ON-SITE = 18,537 S.F. / 161,471 S.F. = 11.58% OR (0.43 ACRES)

TOTAL DISTURBED IRA XERORIPARIAN - C (THIS PROJECT) = 485 S.F. / 160,726 = 0.3%

REGULATED RIPARIAN HABITAT NOTES

1. THIS PROJECT SITE CONTAINS REGULATED RIPARIAN HABITAT (RRH). THE SITE CONTAINS HABITAT MAPPED AS IMPORTANT RIPARIAN AREA C. AVOIDANCE OF THIS IMPACT IS NOT POSSIBLE.
2. THE REGULATED RIPARIAN HABITAT AREAS DISTURBED WILL BE MITIGATED WITH RIPARIAN PLANTINGS PER THE PROTECTED RIPARIAN MITIGATION PLANTING PLANS. SEE TABULATIONS AND CALCULATIONS FOR INDIVIDUAL HABITAT AREAS, DISTURBED AREAS, AND MITIGATION PLANTINGS REQUIRED. SEE NOTES #6 & #7 BELOW FOR TOTAL RIPARIAN HABITAT AREAS AND DISTURBED AREAS.
3. THE RIPARIAN MITIGATION PLANTINGS WILL BE PROVIDED AT THE LEVELS INDICATED IN THE MITIGATION STANDARDS AND IMPLEMENTATION STANDARDS, DATED NOVEMBER 2011. THE SPECIES SELECTED FOR THE TREES, SHRUB, AND NATIVE SEED MIX ARE A COMBINATION OF PLANTS FOUND ON SITE AND FROM THE APPROVED PLANT LISTS FOR THE PROJECT AREA.
4. RIPARIAN MITIGATION PLANTINGS WILL BE IRRIGATED AND MAINTAINED FOR THE YEARS PER PORFC REQUIREMENTS.
5. RIPARIAN MITIGATION PLANTING INSTALLATION WILL BE COMPLETED BY THE FIRST GROWING SEASON AFTER CONSTRUCTION.
6. TOTAL SITE AREA IS 5.17 ACRES.
7. TOTAL AMOUNT OF IRA XERORIPARIAN C IS 3.88 ACRES. THE AMOUNT OF DISTURBED IRA XERORIPARIAN C IS 0.42 ACRES. THERE IS NO DISTURBANCE TO XERORIPARIAN C.
8. RIPARIAN HABITAT TO BE PRESERVED SHALL BE FENCED FOR PROTECTION DURING CONSTRUCTION USING MINIMUM 4 FOOT HIGH ORANGE MESH BARRICADE FENCING. PROTECTIVE FENCING MUST REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION AND DEVELOPMENT PROCESS.

PLAN NOTES

1. THE RIPARIAN HABITAT LINEWORK IS FROM PIMA COUNTY MAP/GUIDE.
2. THE AERIAL PHOTOGRAPH SHOWN ON THIS PLAN IS A DRONE IMAGE TAKEN ON JANUARY 19, 2023 BY NOVAK ENVIRONMENTAL, INC. AND SHOWS THE CURRENT CONDITION OF THE SITE.

ADDRESS: 3714 E. EL TORO RD.
RECORD NUMBER: P22FC01186

Novak Environmental, Inc.
4624 North First Avenue #100 • Tucson, AZ 85718
Phone 520.298.0501 • Fax 520.882.3088

Landscaping • Wetlands • Natural Resources • Planning • Mapping

RIPARIAN HABITAT MITIGATION PLAN & NATIVE PLANT PRESERVATION PLAN
MARTIN RESIDENCE

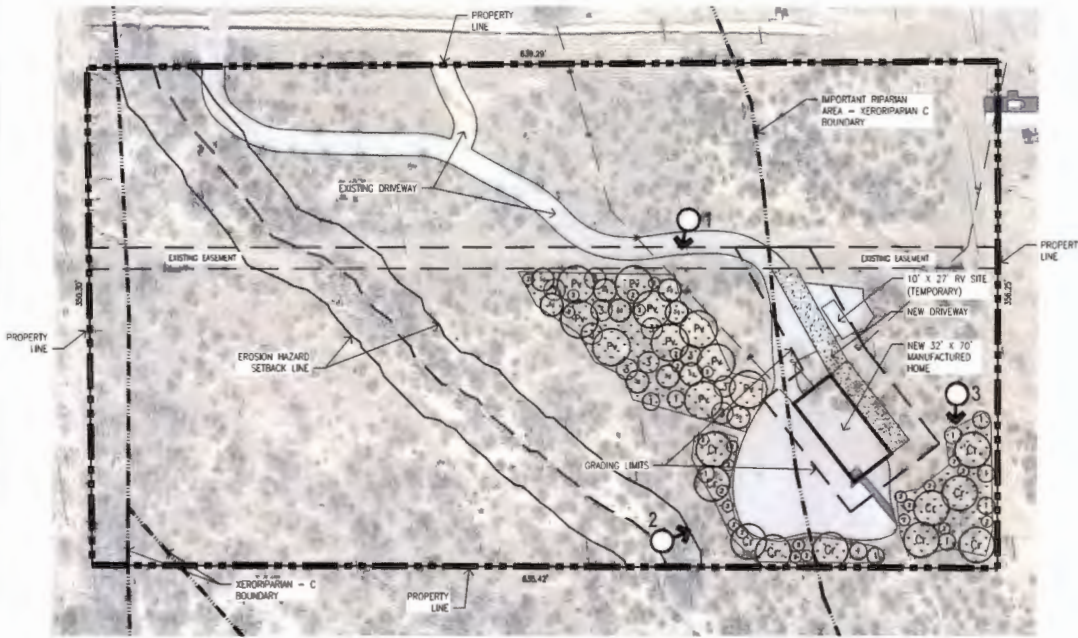
52° 47'12.34" N 04° 04' 00.00" E 6882.13'
5.25 AC SEC 21-17-14 PIMA COUNTY, ARIZONA

DATE: FEBRUARY 2023
PROJECT NO: 23006
SHEET: 1 of 3



PROJECT OF NOVAK ENVIRONMENTAL, INC. DRAWING NO. P22FC01186. DATE: FEBRUARY 2023. DRAWING PREPARED BY: KAREN M. DESANE, P.E., LICENSE NO. 17173. CHECKED BY: JESSICA L. HARRIS, P.E., LICENSE NO. 17173. DATE: FEBRUARY 2023. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM NOVAK ENVIRONMENTAL, INC.

STATE OF ARIZONA, COUNTY OF MARICOPA, PROJECT NO. 2022-001, PREPARED BY: NOVAK ENVIRONMENTAL, INC. DATE: 02/20/2023. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM NOVAK ENVIRONMENTAL, INC.



RIPARIAN HABITAT MITIGATION PLAN

PLANT KEY

Botanical Name	Common Name	Qty	Size
Trees:			
<i>Catalpa reticulata</i>	Canyon Hackberry	10	(8) 16 gallon -- (2) 5 gallon
<i>Prosopis juliflora</i>	Violet Mesquite	10	(8) 16 gallon -- (2) 5 gallon
<i>Banania grandis</i>	Calceolaria Acacia	10	(8) 16 gallon -- (2) 5 gallon
Shrubs:			
<i>Dodonaea viscosa</i>	Hopbush	10	(8) 5 gallon -- (2) 1 gallon
<i>Larrea tridentata</i>	Crooked Bush	27	(17) 5 gallon -- (10) 1 gallon
<i>Vachellia constricta</i>	Whitethorn Acacia	10	(8) 5 gallon -- (2) 1 gallon

IMPORTANT RIPARIAN AREA DISTURBANCE POST 2005 - PLANTING MITIGATION CALCULATIONS

TOTAL IRA XERORIPARIAN - C AREA DISTURBED POST 2005
 REQUIRED TREES: 18,079 S.F. -- 18,079/43,560 = 0.42 ACRE 0.42 X 45 TREES/ACRE = 18.9 X 1.5 = 28.35 (29 TREES REQUIRED)
 (29) TREES PROVIDED
 REQUIRED SHRUBS: 0.42 ACRES X 70 SHRUBS/ACRE = 29.4 X 1.5 = 44.1 (45 SHRUBS REQUIRED) (45) SHRUBS PROVIDED

 NEW DISTURBANCE IRA XERORIPARIAN - C (THIS PROJECT) REQUIRED TREES: 458 S.F. -- 458/43,560 = 0.011 ACRE
 0.011 X 45 TREES/ACRE = 0.51
 0.51 X 1.5 = .76 (1 TREE REQUIRED)
 (1) TREES PROVIDED
 REQUIRED SHRUBS: 0.011 ACRES X 70 SHRUBS/ACRE = 0.77
 0.77 X 1.5 = 1.16 (2 SHRUBS REQUIRED) (2) SHRUBS PROVIDED

**RIPARIAN MITIGATION PLANT MATERIAL REQUIRED FOR THIS PROJECT:
 TOTAL TREES: 30
 TOTAL SHRUBS: 47

MITIGATION NATIVE SEED MIX

Botanical Name	Common Name	PLS per Acre
Shrubs:		
<i>Callisander eriophylla</i>	Fairy Duster	1.0
<i>Dodonaea viscosa</i>	Hopbush	1.0
<i>Encelia farinosa</i>	Bottlebrush	3.0
<i>Zinnia elaeagnifolia</i> var. <i>canescens</i>	Grayburn	1.0
Annuals/Perennials/Forbs:		
<i>Gnaphalium goodenifolium</i>	Goodenifolia Verbena	2.0
<i>Lupinus albus</i>	Couler's Lupine	1.5
<i>Malvastrum</i>	Antone's Poppy	1.0
<i>Zinnia mexicana</i>	Desert Zinnia	1.0
Grasses:		
<i>Hilaria belandieri</i>	Curly Mesquite	1.0
<i>Leptochloa dubia</i>	Green Sprangletop	1.0
<i>Habenaria rigida</i>	Deer Grass	2.0
<i>Sporobolus airoides</i>	Alkali Sacaton	2.0

PLS = Pure Live Seed
 NATIVE SEED MIX - 17,033 S.F./0.39 ACRES

NOTES

1. PLANT MITIGATION PLANT MATERIAL IN OPEN AREAS BETWEEN EXISTING PLANTS AS AVAILABLE.
2. PLANTS WILL BE HAND WATERED BY OWNER.
3. A MONITORING PLAN, IN ACCORDANCE WITH THE MONITORING SCHEDULE OUTLINED IN SECTION 3 OF THE GUIDELINES, WILL BE SUBMITTED OVER A FIVE YEAR PERIOD FOLLOWING IMPLEMENTATION OF THE RIPARIAN HABITAT MITIGATION PLAN (RHMP). ANY CHANGES FROM THE APPROVED RHMP SHALL BE NOTED ON THE MONITORING PLAN SUBMITTAL. SUBMITTALS SHALL BE LABELED "ANNUAL MONITORING REPORT FOR P22FC01186" AND SENT TO THE FOLLOWING ADDRESS:

PMA COUNTY REGIONAL FLOOD CONTROL DISTRICT
 ATTN: FLOODPLAIN MANAGEMENT DIVISION STAFF
 201 N. STONE AVE., 9TH FLOOR
 TUCSON, AZ 85706



ADDRESS: 3714 E. EL TORO RD.
 RECORD NUMBER: P22FC01186

Novak Environmental, Inc. 4274 North First Avenue P108 • Tucson, AZ 85718 Phone 520.298.0581 Fax 520.382.3088		Landscape Architecture • Natural Resources • Planning • Mitigation	
RIPARIAN HABITAT MITIGATION PLAN & NATIVE PLANT PRESERVATION PLAN MARTIN RESIDENCE			
S2 N712.34' NE4 NE4 ENC 6882 13' S25 AC SEC 211-17-14 PMA COUNTY, ARIZONA		SHEET 2 OF 3	
NO. _____ REVISION: _____ DATE: _____	DRAWN BY: _____ CHECKED BY: _____ DATE: _____	TITLE: _____ SCALE: _____ DATE: _____	PROJECT: _____ SHEET: _____ DATE: _____
FEBRUARY 2023		23006 SEE PLAN	

