



BOARD OF SUPERVISORS AGENDA ITEM REPORT

Requested Board Meeting Date: 3/21/2023

*= 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 In-Lieu Fee Proposal for Grading Violation at 18057 West Licksillet Lane, Located within Regulated Riparian Habitat

***Introduction/Background:**

Chapter 16.30 of the Pima County Floodplain Management Ordinance No. 2010-FC5 (Ordinance) requires a riparian habitat mitigation plan (RHMP) for mapped riparian habitat disturbances greater than 1/3 acre. The RHMP requires a Flood Control District Board of Directors (Board) approval when disturbance of Important Riparian Area exceeds 1/3 of an acre and is more than 5 percent of the habitat on the property. 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.

***Discussion:**

The owners have applied for a permit to construct a addition to their single family residence on their property. The entire property is mapped within Regulated Riparian Habitat. Upon review of the permit it was discovered there has been unpermitted disturbance to the RRH that has not been mitigated. Luke Smith with Lewis and Smith Engineering LLC was hired to prepare a Riparian Habitat Mitigation In-Lieu Fee Proposal and is proposing to contribute a fee of \$6,931.50 in lieu of onsite mitigation, based on the a vegetative survey.

***Conclusion:**

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.

***Recommendation:**

The In-Lieu Fee Proposal conforms to the Ordinance and the Guidelines, and, as such, the District recommends approval.

***Fiscal Impact:**

\$6,931.50

***Board of Supervisor District:**

1 2 3 4 5 All

Department: Regional Flood Control District

Telephone: 724-4600

Contact: Patricia Gilbert

Telephone: 724-4606

Department Director Signature: _____

Date: 3/1/23

Deputy County Administrator Signature: _____

Date: 3/1/2023

County Administrator Signature: _____

Date: 3/1/23

3/21/23

DATE: February 28, 2023

TO: Flood Control District Board of Directors

FROM: Eric Shepp, P.E.
Director

SUBJECT: **Approval of a Riparian Habitat Mitigation In-Lieu Fee Proposal for Grading Violation at 18057 West Lickskillet Lane, Located within Regulated Riparian Habitat (District 3)**

Background

Chapter 16.30 of the Pima County Floodplain Management Ordinance No. 2010-FC5 (Ordinance) requires a riparian habitat mitigation plan (RHMP) for mapped riparian habitat disturbances greater than 1/3 acre. The RHMP requires a Flood Control District Board of Directors (Board) approval when disturbance of Important Riparian Area exceeds 1/3 of an acre and is more than 5 percent of the habitat on the property. 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 Board review and approval.

Report

The owners Mr. and Mrs. Scott have applied for a permit to construct an addition to their single family residence on their property located at 18057 West Lickskillet Lane (Exhibit A). The entire property is mapped within Regulated Riparian Habitat (RRH) and is classified as Important Riparian Area with an Underlying Classification Xeroriparian C Habitat (Exhibit B). Upon review of the permit it was discovered there has been unpermitted disturbance to the RRH that has not been mitigated and the disturbance is over 5% of the RRH on the property. Mr. and Mrs. Scott hired Luke Smith with Lewis and Smith Engineering LLC to prepare a Riparian Habitat Mitigation In-Lieu Fee Proposal (Exhibit C) and is proposing to contribute a fee of \$6,931.50 in lieu of onsite mitigation, based on the a vegetative survey which is allowed under the guidance provided in the *Pima County Regulated Riparian Habitat Off-Site Mitigation Guidelines*.

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



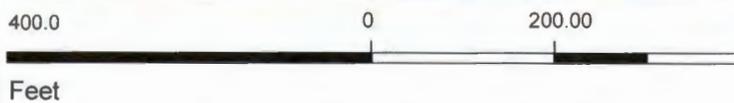
Legend

 Parcels



18057 West Licksillet Lane

2/28/2023



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



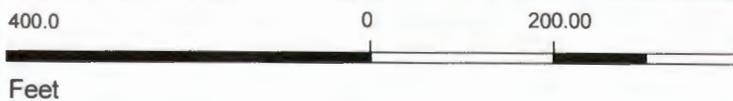
Legend

- Parcels
- 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



18057 West Licksillet Lane

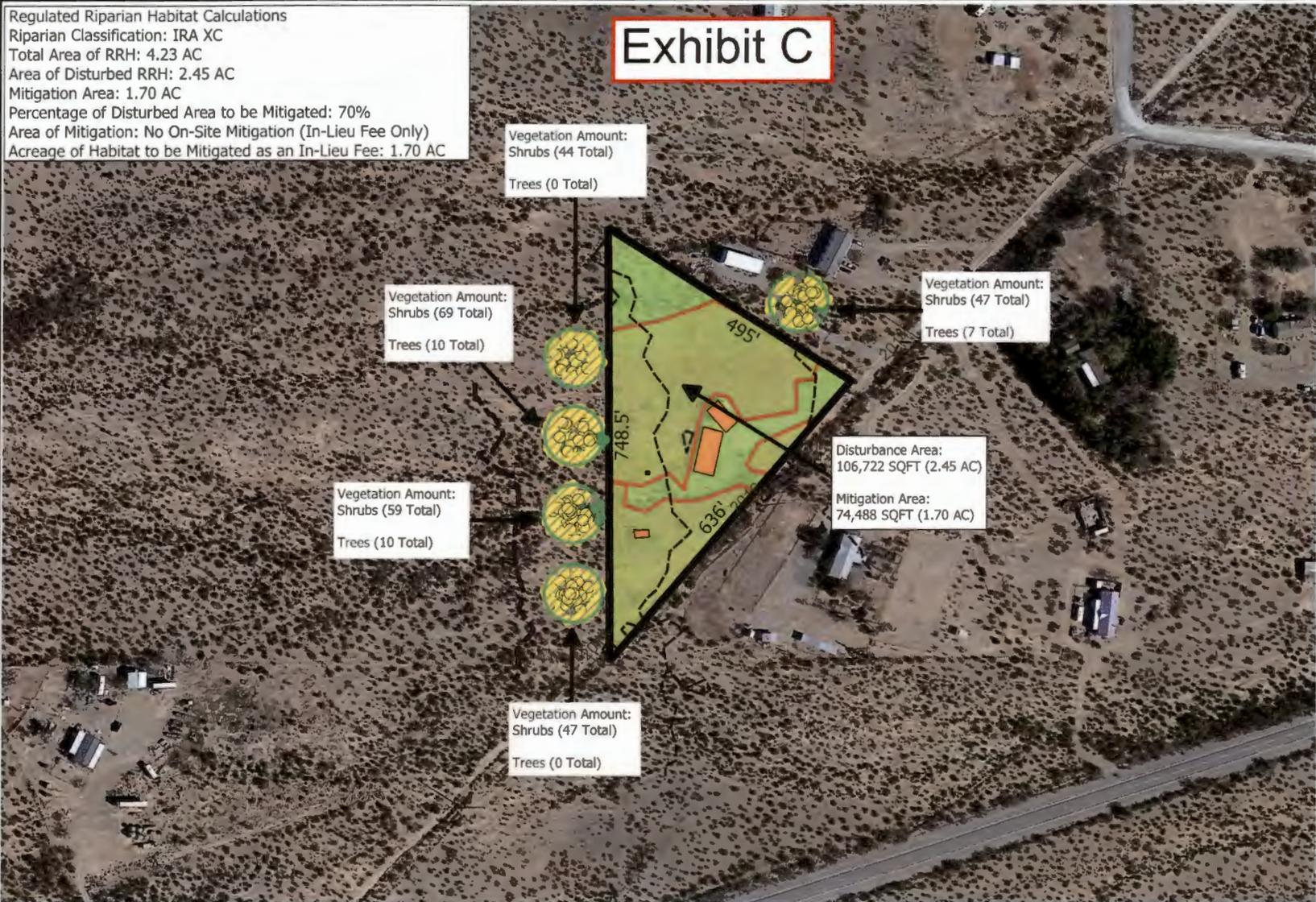
2/28/2023



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Regulated Riparian Habitat Calculations
 Riparian Classification: IRA XC
 Total Area of RRH: 4.23 AC
 Area of Disturbed RRH: 2.45 AC
 Mitigation Area: 1.70 AC
 Percentage of Disturbed Area to be Mitigated: 70%
 Area of Mitigation: No On-Site Mitigation (In-Lieu Fee Only)
 Acreage of Habitat to be Mitigated as an In-Lieu Fee: 1.70 AC

Exhibit C



Vegetation Amount:
Shrubs (44 Total)
Trees (0 Total)

Vegetation Amount:
Shrubs (69 Total)
Trees (10 Total)

Vegetation Amount:
Shrubs (59 Total)
Trees (10 Total)

Vegetation Amount:
Shrubs (47 Total)
Trees (0 Total)

Vegetation Amount:
Shrubs (47 Total)
Trees (7 Total)

Disturbance Area:
106,722 SQFT (2.45 AC)
Mitigation Area:
74,488 SQFT (1.70 AC)



Legend

- Property Boundary
- Existing Structures
- Disturbance Area
- IRA XC
- Vegetation Survey

Note: Per Notice of Violation received from Pima County Development Services, a grading permit is required since greater than 14,000 square feet of vegetation had been cleared. A grading permit requires a minimum of 30% of Natural Set Aside per Code 18.72.

Note: No protected species were observed on site or adjacent parcels. 0 Pineapple cactus, 0 Saguaros, and 0 Ironwood trees were identified on site.

Note: Surface topography remained unchanged with land disturbance activity. Drainage remains unchanged in light of surficial removal of vegetation on site as evident by the unchanged gradient. Grading is not steeper than 3:1 across the site.

Note: Vegetation survey was based on five 100' diameter circular areas adjacent to impacted parcel. The average shrub and tree density by size is presented below:
 Average Number Shrubs: 53
 Average Number Trees: 6

*** Percentages used in ILF Calculation***

REVISIONS		
ID	DETAILS	DATE

CLIENT: Scott & Kaleigh Sean
 ADDRESS: 18057 W Lickskillet Ln
 Marana, AZ, 85653
 Legal description
 TRI WLY PTN S812.20' LOT 17
 SILVERBELL TRAILS ESTATES RS 22/76
 AKA PTN SW4 4.15 AC SEC17-12-10

APN: 208-25-122J
 ACRES: 4.23
 PERMIT NO.:
 PLAN INFO: Riparian Habitat Mitigation
 In-Lieu Fee Proposal (No On-Site Mitigation)

DATE: 23FEB2023 Sheet: 1
 Project No. 500123001 FPUP No. P23FC00045
 PREPARED BY: TRAVIS B. LEWIS, P.E.
 LEWIS & SMITH ENGINEERING, LLC
 A: 5440 E GOLDR RANCH RD, TUCSON, AZ 85739
 E: TLEWIS@LewisandSmith.com

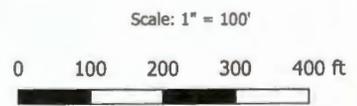
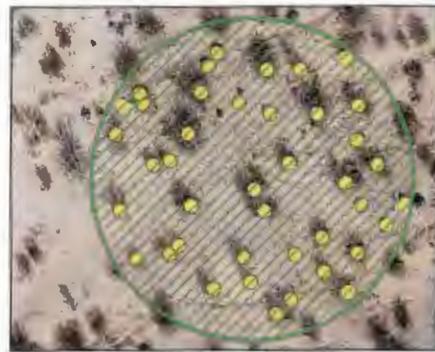
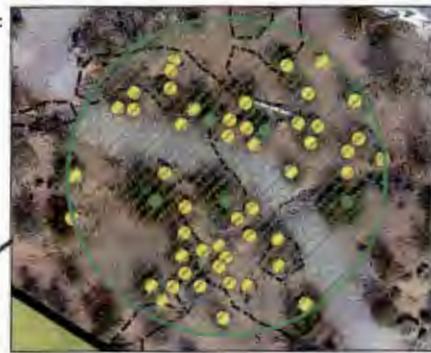


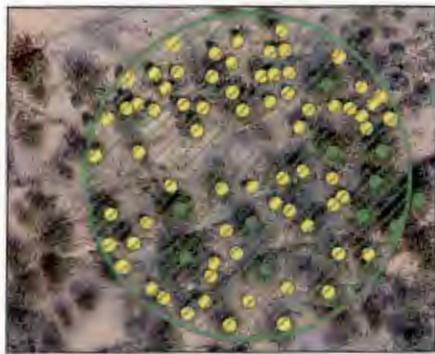
Exhibit C



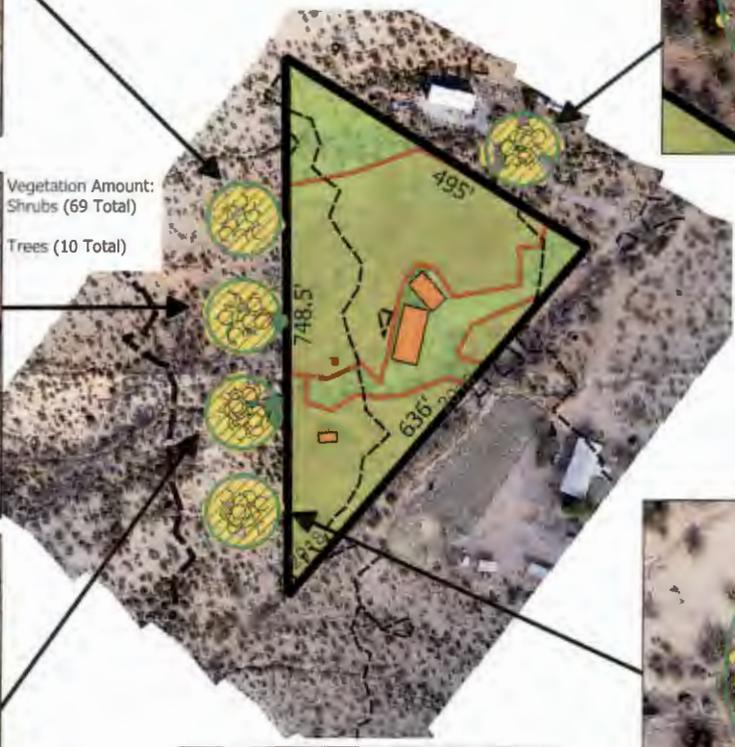
Vegetation Amount:
Shrubs (44 Total)
Trees (0 Total)



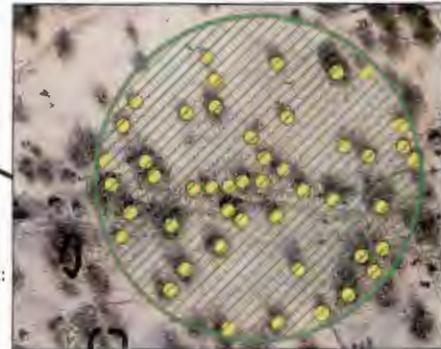
Vegetation Amount:
Shrubs (47 Total)
Trees (7 Total)



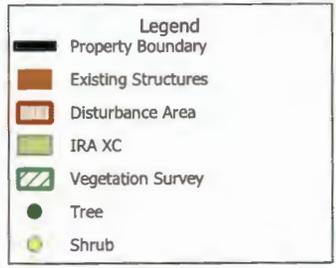
Vegetation Amount:
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Trees (10 Total)



Vegetation Amount:
Shrubs (59 Total)
Trees (10 Total)



Vegetation Amount:
Shrubs (47 Total)
Trees (0 Total)



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Note: No protected species were observed on site or adjacent parcels. 0 Pineapple cactus, 0 Saguaros, and 0 Ironwood trees were identified on site.

Note: Surface topography remained unchanged with land disturbance activity. Drainage remains unchanged in light of surficial removal of vegetation on site as evident by the unchanged gradient. Grading is not steeper than 3:1 across the site.

Note: Vegetation density was based on five 100' diameter circular areas adjacent to impacted parcel. The average shrub and tree density by site is presented below:
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*** Percentages used in ILF Calculation***

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AKA PTN SW4 4.15 AC SEC17-12-10

APN: 208-25-122J
ACRES: 4.23
PERMIT NO.:
PLAN INFO: Vegetation Survey (High Quality Ortho Image)

DATE: 22FEB2023 Sheet: 2
Project No. 500123001 FPUP No. P23FC00045
PREPARED BY: TRAVIS B. LEWIS, P.E.
LEWIS & SMITH ENGINEERING, LLC
A: 5440 E GOLDR RANCH RD, TUCSON, AZ 85739
E: TLEWIS@LewisandSmith.com

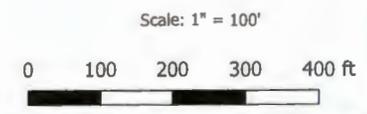
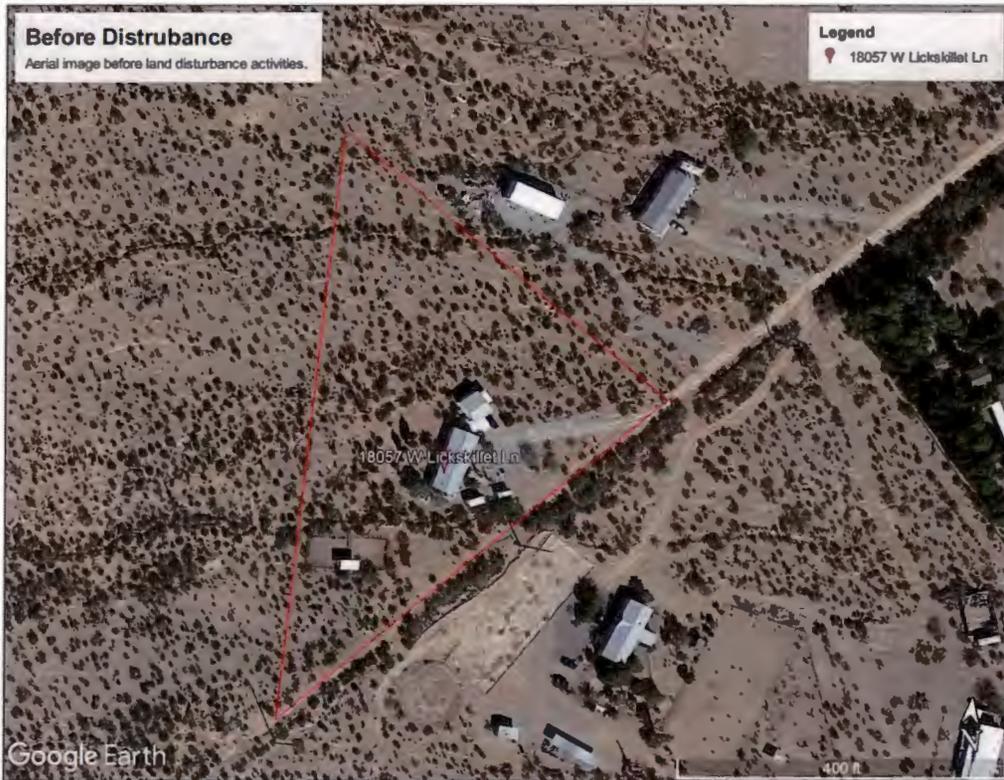


Exhibit C

Disturbance Comparison



Note: Vegetation density on subject property is consistent with vegetation density of adjacent parcels prior to disturbance. Therefore, calculated vegetation density of adjacent parcels was used to inform plant distribution for shrubs and trees within the Appendix F - ILF Calculation Spreadsheet.

Exhibit C

Calculating In-Lieu Fee Costs for Single-lot Development

Shaded fields are editable - Enter value in Acres

FPUP No. P23FC00045

Sheet 4

<i>Class H or IRA w/ Underlying Class H Habitat (H or IRA/H)**</i>			Option to basic requirement (Xeroriparian)*	Option to basic requirement (Class H)**	
Total mapped habitat onsite		0.00 Acre(s)			
Area of disturbed RRH		0.00 Acre(s)			
% of mapped habitat disturbed	#DIV/0!	Acre(s)			
Area of mitigation		0.00 Acre(s)			
Total number of trees required (90 trees/ac)	88	0 Trees	na	0	Trees
Total number of shrubs required (100 shrubs/ac)	98	0 Shrubs	na	0	Shrubs
<i>IRA w/ Underlying Xeroriparian Class A Habitat (IRA/XA)**</i>					
Total mapped habitat onsite		Acre(s)			
Area of disturbed RRH		Acre(s)			
% of mapped habitat disturbed	#DIV/0!	Acre(s)			
Area of mitigation		0.00 Acre(s)			
Total number of trees required (75 trees/ac)	75	0 Trees	0	na	Trees
Total number of shrubs required (90 shrubs/ac)	90	0 Shrubs	0	na	Shrubs
<i>IRA w/ Underlying Xeroriparian Class B Habitat (IRA/XB)**</i>					
Total mapped habitat onsite		Acre(s)			
Area of disturbed RRH		Acre(s)			
% of mapped habitat disturbed	#DIV/0!	Acre(s)			
Area of mitigation		0.00 Acre(s)			
Total number of trees required (60 trees/ac)		0 Trees	0	na	Trees
Total number of shrubs required (80 shrubs/ac)		0 Shrubs	0	na	Shrubs
<i>IRA w/ Underlying Xeroriparian Class C Habitat (IRA/XC)**</i>					
Total mapped habitat onsite		Acre(s)			
Area of disturbed RRH		Acre(s)			
% of mapped habitat disturbed		70% Acre(s)			
Area of mitigation		1.70 Acre(s)			
Total number of trees required (45 trees/ac)		0 Trees	0	na	Trees
Total number of shrubs required (70 shrubs/ac)		0 Shrubs	0	na	Shrubs
<i>IRA w/ Underlying Xeroriparian Class D Habitat (IRA/XD)**</i>					
Total mapped habitat onsite		Acre(s)			
Area of disturbed RRH		Acre(s)			
% of mapped habitat disturbed	#DIV/0!	Acre(s)			
Area of mitigation		0.00 Acre(s)			
Total number of trees required (30 trees/ac)		0 Trees	0	na	Trees
Total number of shrubs required (x shrubs/ac)*		0 Shrubs	0	na	Shrubs

<i>ILF Calculation</i>		
15-gallon trees	3	\$240.00
5-gallon trees	3	\$75.00
5-gallon shrubs	27	\$621.00
1-gallon shrubs	26	\$156.00
Hydroseed	1.70 Acres(s)	\$1,504.50
Irrigation system (materials and labor for installation)***	1.70 Acres(s)	\$2,550.00
5-year maintenance for Xeroriparian****	0.00 Acres(s)	\$0.00
5-year maintenance for H and/or IRA****	1.70 Acres(s)	\$1,785.00
Total Cost		\$6,931.50

Average Costs (Costs shown for plants do not include installation costs)	15-gallon tree	5-gallon tree	5-gallon shrub	1-gallon shrub	Seeding (per acre)	Irrigation (per acre)	Class H 5-year maintenance (per acre)	Xeroriparian 5-year maintenance (per acre)
	\$80	\$25	\$23	\$6	\$885	\$1,500	\$1,050	\$610

*Density 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 density.

***Irrigation costs are calculated as a percentage of the plant material costs

****Average cost based on annual plant water requirements, plant replacement @ 5% over five years, and invasive species control (cost for herbicide only).

*Option to basic requirement for Xeroriparian Classes A-D: Reduce total plant quantity by 20% if 100% 15 gallon trees and 100% 5 gallon shrubs are used.

**Option to basic requirement for Class H: Increase total plant quantity by 20% if 50% 15 gallon/50% 5 gallon trees are used and 100% 1 gallon shrubs are used.