

PRELIMINARY FOREST CONSERVATION WORKSHEET

Note: Use 0 for all negative numbers that result from the calculations.

**A= 19.93
B= 0
C= 19.93**

**D= 3.99
E= 3.99**

**F= 6.54
G= 2.55**

H= 4.50

I= 2.04

J= 6.54

K= 0

L= 0.64

M= 7.98

N = 0

P= 8.62

**Q= 0
R= 8.62**

Net Tract Area

- A. *Total Tract Area*
- B. *Deductions* (Critical Area, area restricted by local ordinance or program)
- C. *Net Tract Area* Net Tract Area = Total Tract (A) - Deductions (B) *
* Net Tract Area = Proposed Limits of Disturbance = 19.93 Ac

Land Use Category: Medium Density Residential

- D. *Afforestation Threshold* (Net Tract Area [C] x $\frac{20}{100}$ %)
- E. *Conservation Threshold* (Net Tract Area [C] x $\frac{20}{100}$ %)

Existing Forest Cover

- F. *Existing Forest Cover within the Net Tract Area*
- G. *Area of Forest Above Conservation Threshold*
If the Existing Forest Cover (F) is greater than the Conservation Threshold (E), then
G = F – E; otherwise G = 0.

Breakeven Point

- H. *Breakeven Point* (Amount of forest that must be retained so that no mitigation is required)
 - (1) If the Area of Forest Above Conservation Threshold (G) is greater than 0, then
H = (0.2 x the Area of Forest Above Conservation Threshold (G)) + the Conservation Threshold (E);
 - (2) If the Area of Forest Above Conservation Threshold (G) is equal to 0, then
H= Existing Forest Cover (F)
- I. *Forest Clearing Permitted Without Mitigation*
I = Existing Forest Cover (F) – Breakeven point (H)

Proposed Forest Clearing

- J. *Total Area of Forest to be Cleared*
- K. *Total Area of Forest to be Retained*
K = Existing Forest Cover (F) – Forest to be Cleared (J)

Planting Requirements

If the Total Area of Forest to be Retained (K) is at or above the Breakeven Point (H), no planting is required, and no further calculations are necessary (L=0, M=0, N=0, P=0, Q=0, R=0).

Otherwise, calculate the planting requirement(s) as follows:

- L. *Reforestation for Clearing Above the Conservation Threshold*
 - (1) If the Total Area of Forest to be Retained (K) is greater than the Conservation Threshold (E), then L = the Area of Forest to be Cleared (J) x 0.25;
 - (2) If the Forest to be Retained (K) is less than or equal to the Conservation Threshold (E), then L = Area of Forest Above Conservation Threshold (G) x 0.25
- M. *Reforestation for Clearing Below the Conservation Threshold*
 - (1) If Existing Forest Cover (F) is greater than the Conservation Threshold (E) and the Forest to be Retained (K) is less than or equal to the Conservation Threshold (E), then M = 2.0 x (Conservation Threshold (E) – Forest to be Retained (K))
 - (2) If Existing Forest Cover (F) is less than or equal to the Conservation Threshold (E), then M = 2.0 x Forest to be Cleared (J)
- N. *Credit for Retention Above the Conservation Threshold*
If the area of Forest to be Retained (K) is greater than the Conservation Threshold (E), then N = K – E; Otherwise N=0
- P. *Total Reforestation Required* P = L + M – N
- Q. *Total Afforestation Required*
If Existing Forest Cover (F) is less than the Afforestation Threshold (D), then
Q = Afforestation Threshold (D) – Existing Forest Cover (F)
- R. *Total Planting Requirement* R = P + Q