

**PROJECT NOTE****WESTON SOLUTIONS, INC.****To:** Canadian Radium & Uranium Site File**Date:** October 7, 2013**W.O. No.:** 20405.012.013.2222.00**From:** Denise Breen, Weston Solutions, Inc.**Subject:** Wetland Calculations

In order to calculate HRS-eligible wetlands within a specified radii within the 4-mile target distance limit of the Canadian radium & Uranium site, Weston personnel:

1. Obtained a wetland GIS shapefile is obtained from the U.S Fish & Wildlife Service's National Wetland Inventory. The link to that database is: <http://www.fws.gov/wetlands/Data/State-Downloads.html>.
2. Wetlands are then classified as HRS eligible or not HRS eligible based on the 40CFR 230.3 definition of a wetland.
3. Using the ESRI ArcGIS 10.1 Multiple Ring Buffer tool, ¼, ½, 1, 2, 3, and 4 mile buffers around the site reference location.
4. Using the ESRI ArcGIS 10.1 Clip tool HRS eligible wetlands are clipped to each radius ring.
5. Using XTools Pro 7.1 for ArcGIS Desktop areas are calculated for each of the individual wetlands.
6. The total area of each individual HRS wetland within each radius ring is then summed up resulting in the total HRS wetland area between each radius ring. The results are summarized as follows:

¼ mile distance ring – 1.69 acre

½ mile distance ring – 10.61 acre

1 mile distance ring – 58.43 acres

2 mile distance ring – 296.54 acres

3 mile distance ring – 318.66 acres

4 mile distance ring – 443.11 acres

Total area – 1129.04 acres



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