Expected Coordinates from Different Systems

When a raster image attached to vector graphics does not line up as you expect, the problem may lie with the operator not knowing the coordinate system of the vector graphics or not knowing the coordinate system of the raster image. The table below can be used to assist in determining the coordinate system of vector graphics if there is no geographic coordinate system attached and no notes in the file.

Coord. System Name	**X-value (E)**	**Y-value (N)**
Oregon State Plane NAD 83	3 - 8 million	Hundreds of thousands
UTM	Around 500,000	Around 5,000,000
OCRS-XXX *(there are 19)*	Tens - Hundreds of thousands	Tens - Hundreds of thousands
OCRS-ORC (Oregon Coast)	Hundreds of thousands	Hundreds of thousands - 2 million

http://www.oregon.gov/ODOT/HWY/GEOMETRONICS/Pages/ocrs.aspx

Challenge -
Did you lose the metadata for your raster image? You can open the world (sister) file for your image in a text editor - what coordinate system do you suspect is being used?

Contents of a .sdw file:
0.500000000068444
0.000000000000000
0.000000000000000
-0.500000000068444
7706555.249999997200000
697124.750000000000000

Answer -
Oregon State Plane (north or south) - the tip off is the X-value in the millions - 2nd line from the bottom.