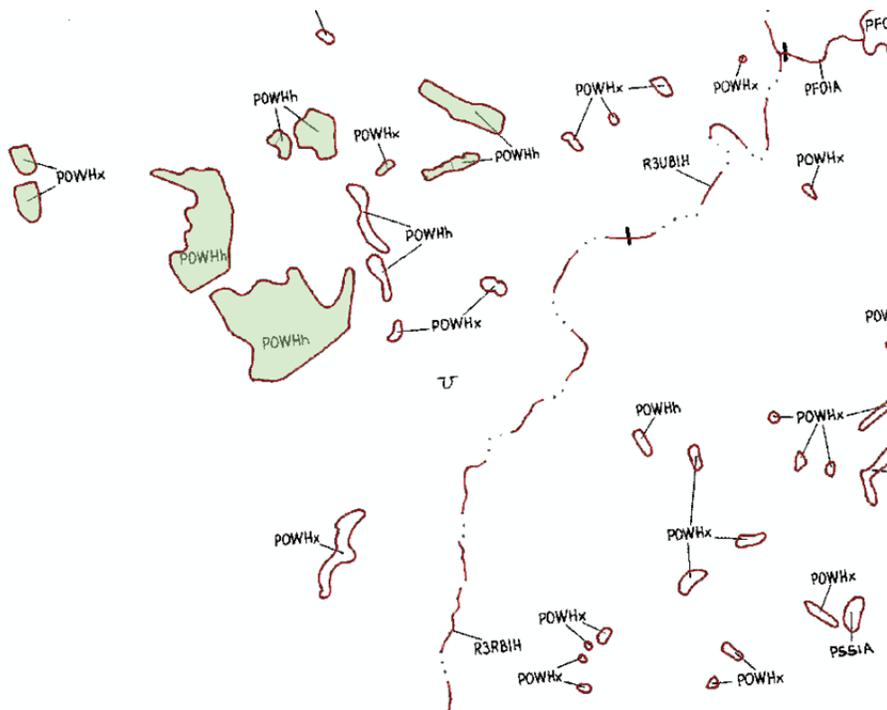




# Raster Conversion QAQC Procedures

January 2012



Jane Harner and Rusty Griffin

U.S Fish and Wildlife Service

Division of Habitat Resource Conservation

Branch of Resources and Mapping Support

## Introduction

As part of the national 'fill in the gap' initiative outlined by the U.S. Fish and Wildlife Services' National Wetland Inventory, the National Standards and Support Team, along with its cooperators are converting original scanned 1:24,000 scale National Wetland Inventory maps from raster to vector data. To complete this conversion the ArcScan extension of ArcGIS software will be utilized to ensure the most time efficient and cost effective method. Once these data are vectorized they will go through a QAQC procedure similar to all other data submitted for review and incorporated into the Wetlands Master Geodatabase. The procedures outlined in this document will be implemented on all data derived in this manner.

## Raster Conversion QAQC Processing Steps

### Data Verification

- All vectorized data will be placed in the file geodatabase with the appropriate MGD schema. The file geodatabase will contain both the polygon dataset as well as a project area.
- The MGD verification tool will initially be run by the person who generated the data. This will flag any bad codes, geospatial errors, and preform logic checks. Any necessary corrections will be made.
- Validate topology and correct any errors.

### Data Quality Control

- The data will then go through a 100% polygon check to ensure accurate representation of the original scanned map. This will be done by someone other than the person who generated the data. The original scanned raster image will be overlaid to ensure accurate representation of the data was achieved. This step will be done at a scale of 1:15,000. Aerial photography and topographic maps will be utilized when appropriate.
- Upon completion the data will be assigned a project number and added to the MGD project tracking sheet.
- It will then be placed in the appropriate folder and is ready for Ecological Review.  
M:\FWS MGD\Projects\Check in\EcoReview\In
- At this time a submittal form will be sent to the NSST QA person to alert them that a project is awaiting their review.

## Data Quality Assurance

- 10-30% of the data will then be checked again for data accuracy and accurate representation of the original map.
- The verification tools will be run again to ensure the data meets federal guidelines.
- When these steps are complete and the data is validated it will be moved to the appropriate folder and await check-in procedures.  
M:\FWS MGD\Projects\Check\_in\EcoReview\Out
- When the data is added to the 'Out' folder the member of the NSST who is performing the check-in will be notified by the QA personnel.

## MGD Check-in

- The data will then be checked in to the Master Geodatabase using the guidelines outlined in the MGD\_checkin\_procedure document located in the following folder:  
M:\FWS MGD\Documentation\Procedures\MGD\_checkin\_procedure
- This will be performed by the database administrator, or qualified personnel depending on availability

## Data Posted to the Wetlands Mapper

- The data will be posted to the online wetlands mapper during the regularly scheduled mapper update by the database administrator.