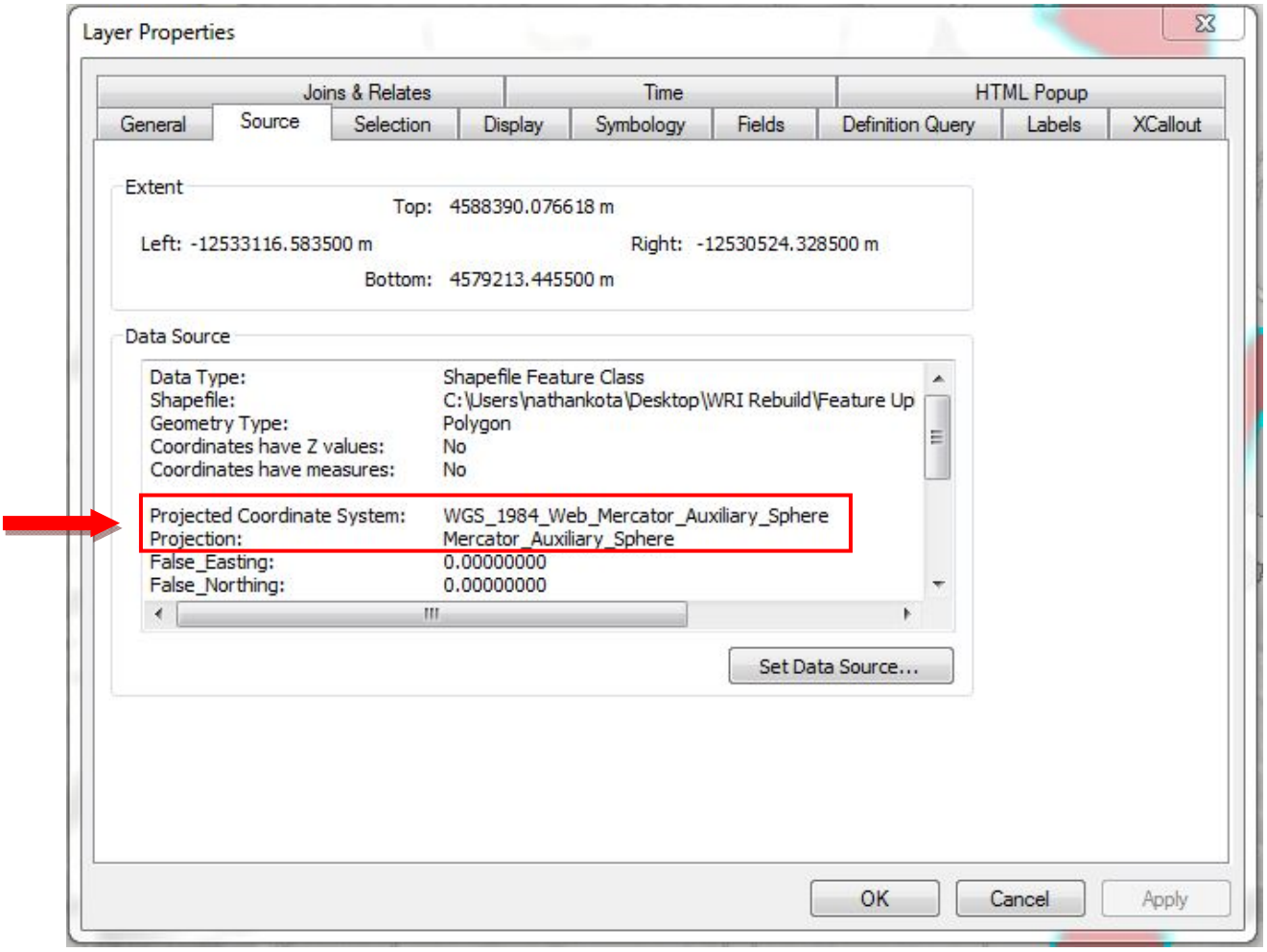
WRI Web Map Application

Feature Upload

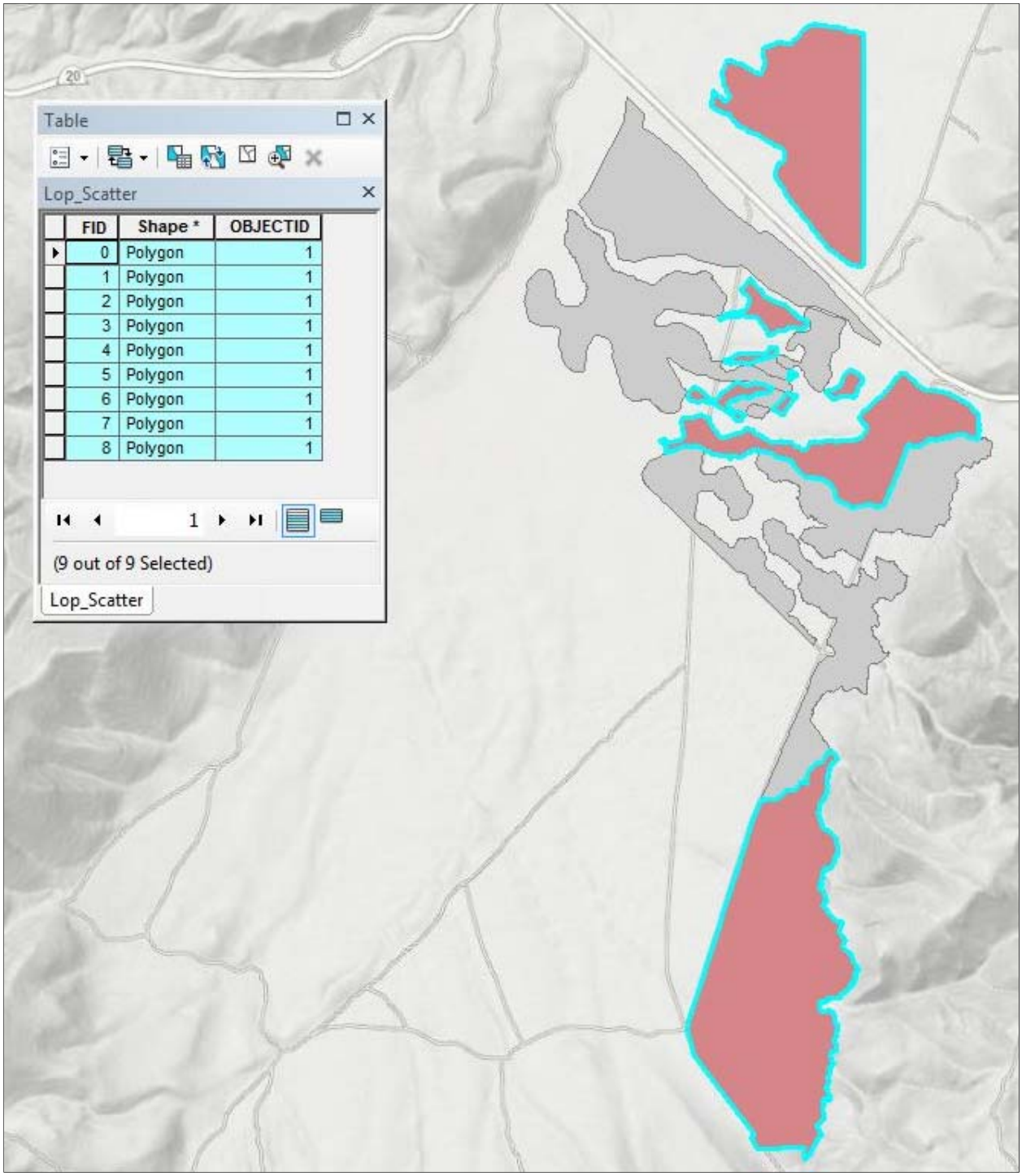
This document provides instructions and tips for uploading 'shape files' created in ArcGIS to represent project footprints on the WRI web map application.

1 Data Preparation in ArcGIS

I. The database stores data in the projected coordinate system of WGS 1984 Web Mercator Auxiliary Sphere, but you may upload data in other projected coordinate systems, and it will be re-projected upon upload



II. Each uploaded shape file must contain only one feature record. Open the attribute table of the shape file or feature class. If there are multiple rows in the table representing features of the same Action/Tretment combination, the rows must be combined into a multi-part feature



III. Two common methods to create a multi-part feature are:

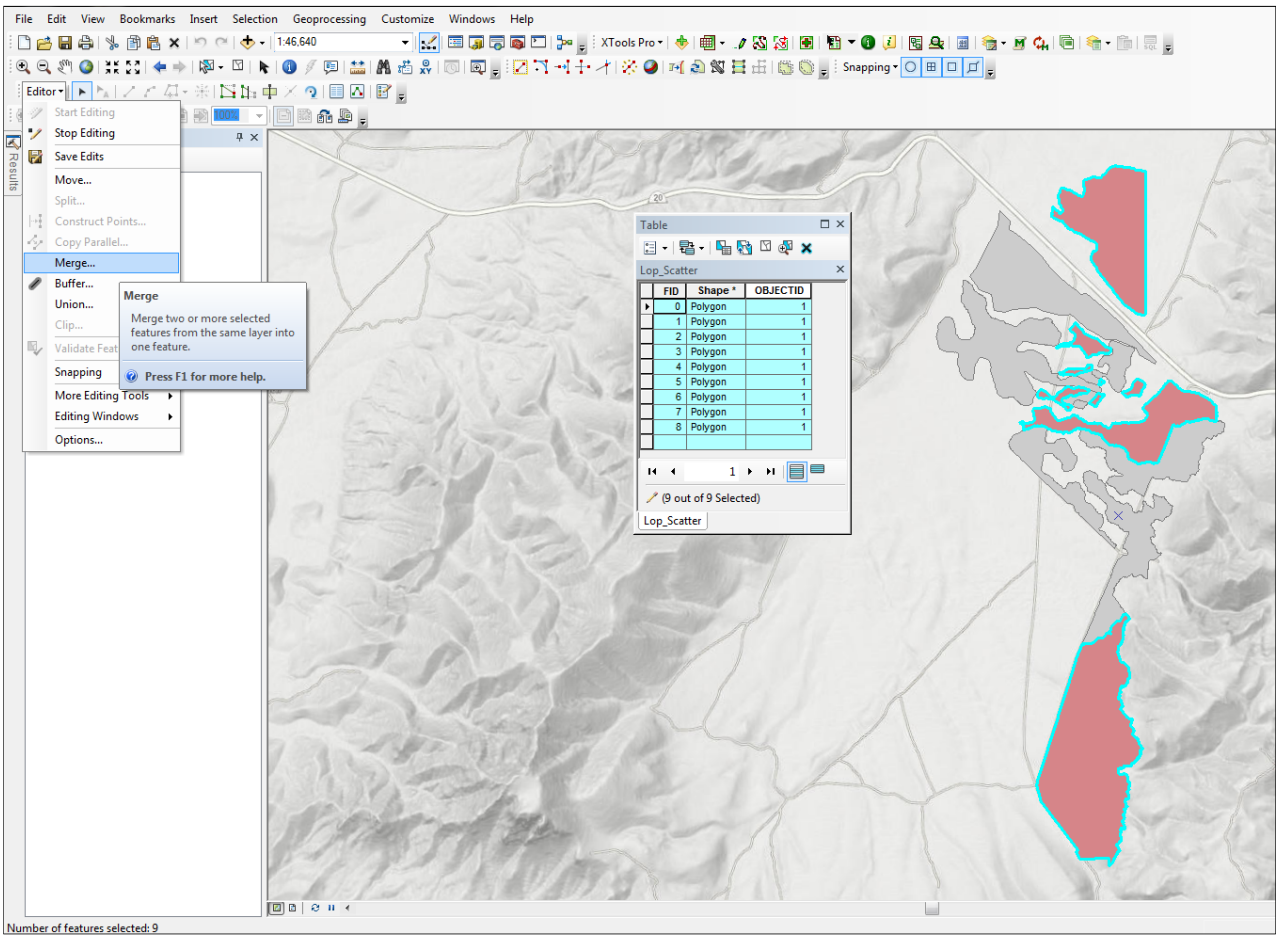
a) Merge function in Editor toolbar

i) Click the Editor dropdown menu and Start Editing

ii) Select all of the records/rows in the attribute table, or select them on the map

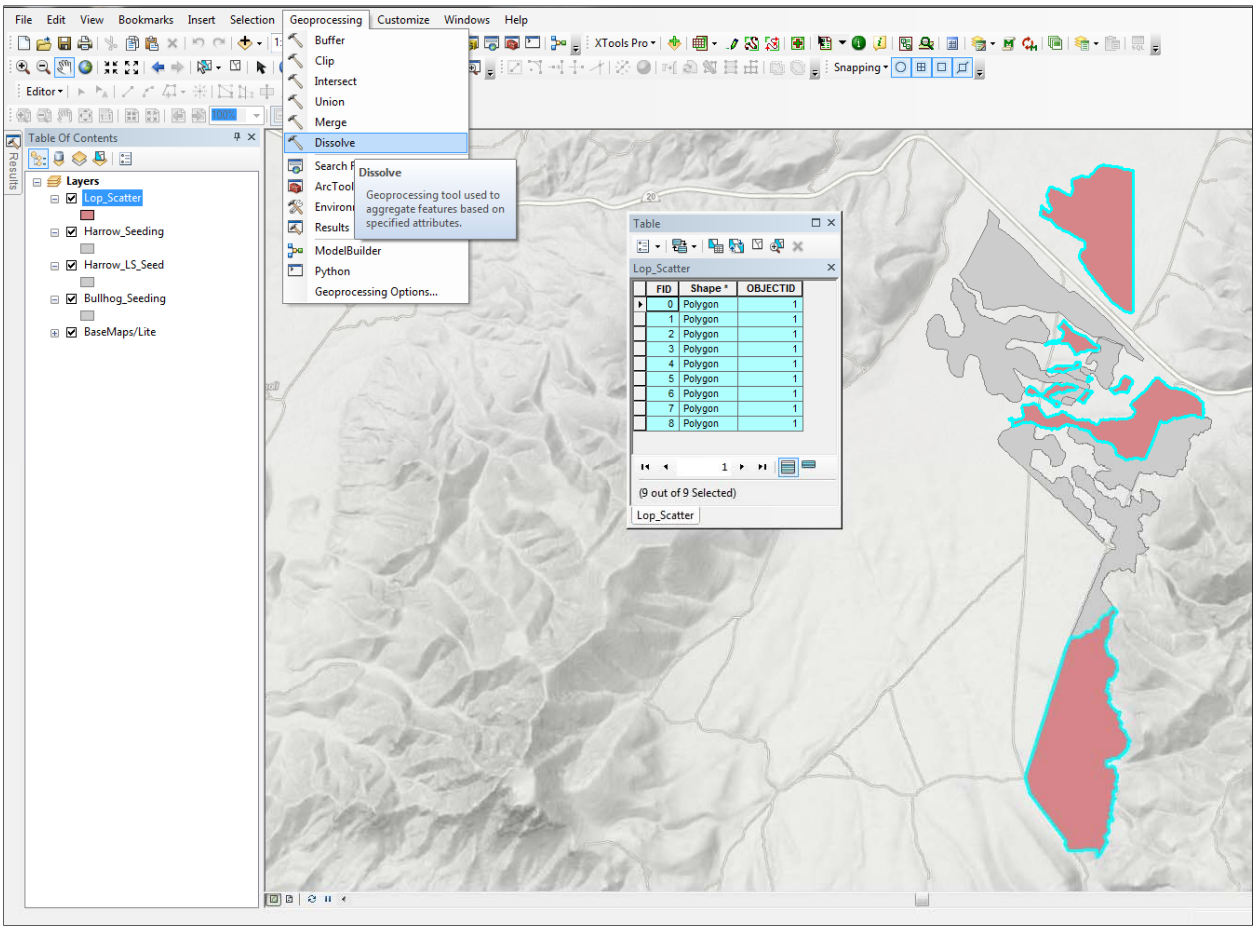
iii) Click the Editor menu and select Merge

iv) Click the Editor menu and Stop Editing, and save your edits

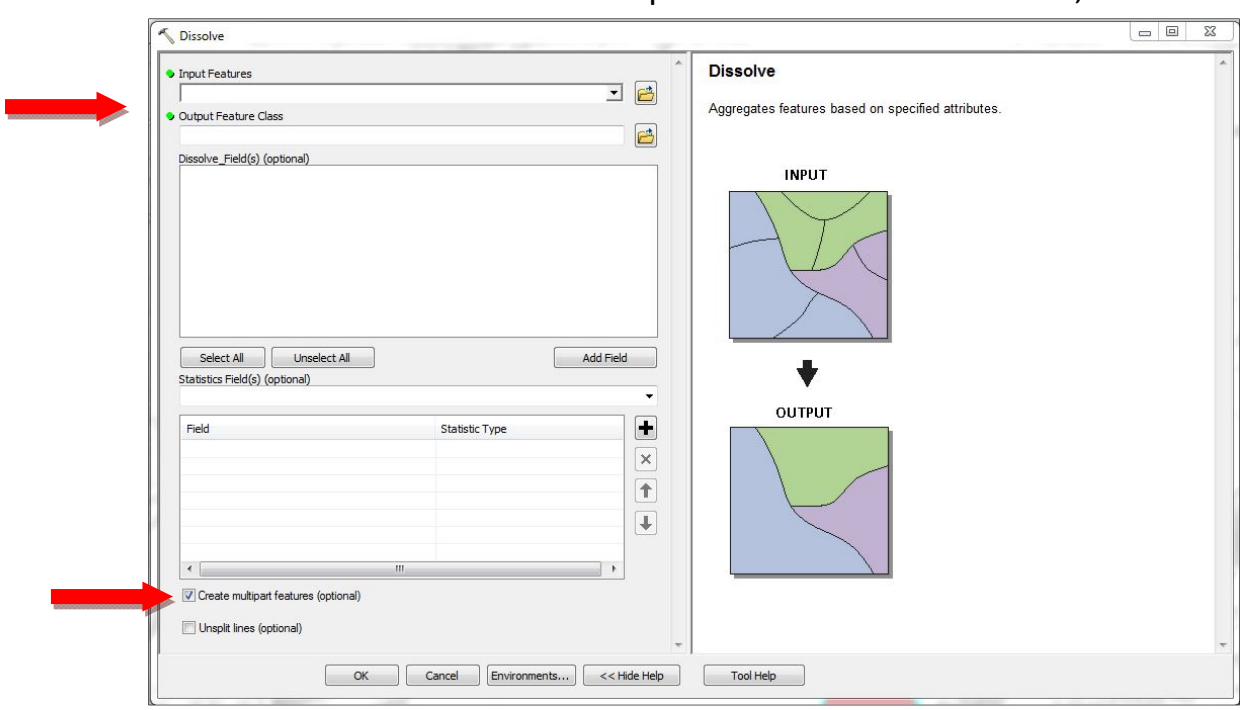


b) Dissolve tool

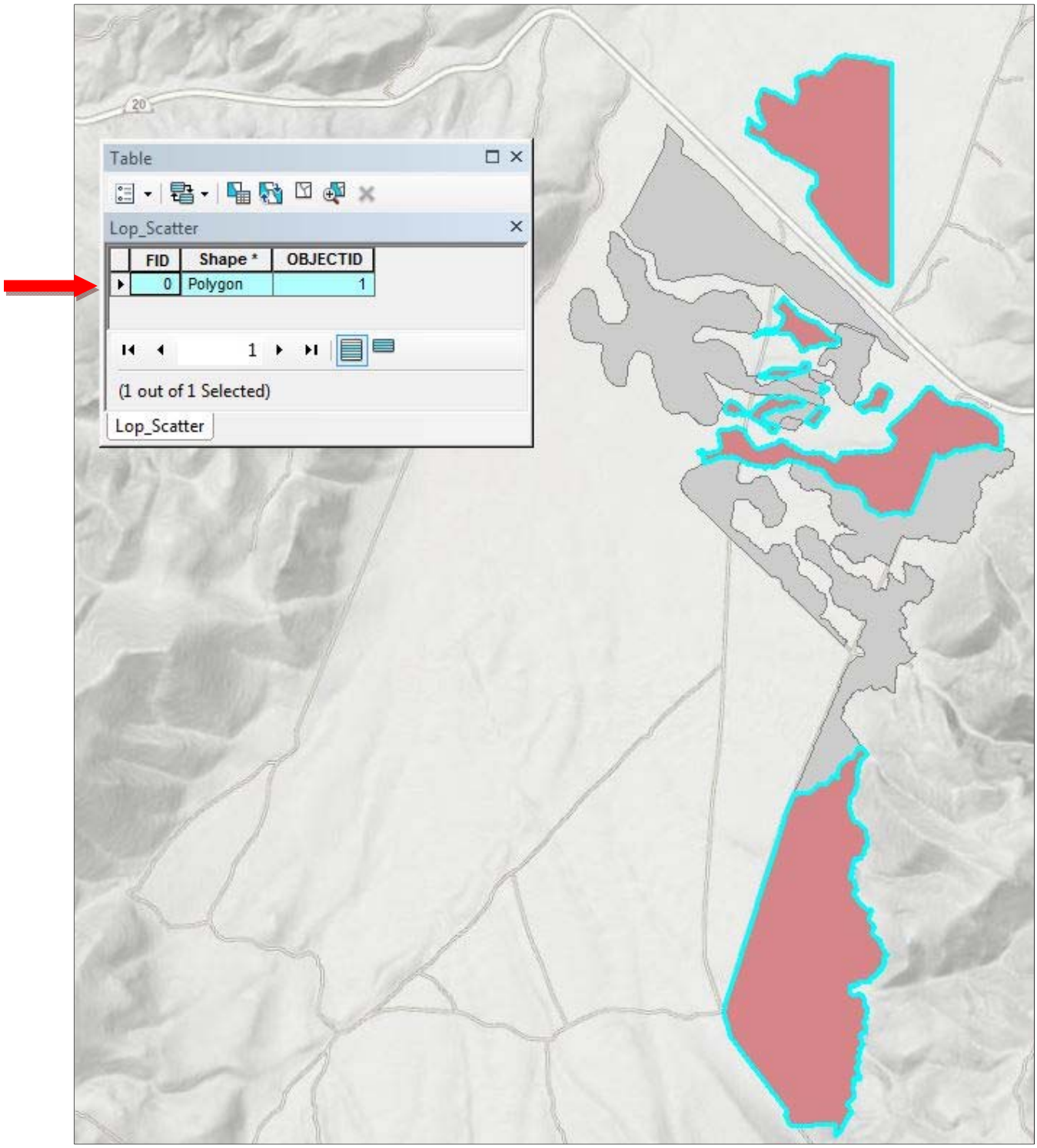
i) Click the Geoprocessing tab at the top of the page and select Dissolve



ii) Select the Input Feature and define the Output Feature Class name and location. Keep all other default settings the same, ensure the Create multipart features box is checked, and click OK

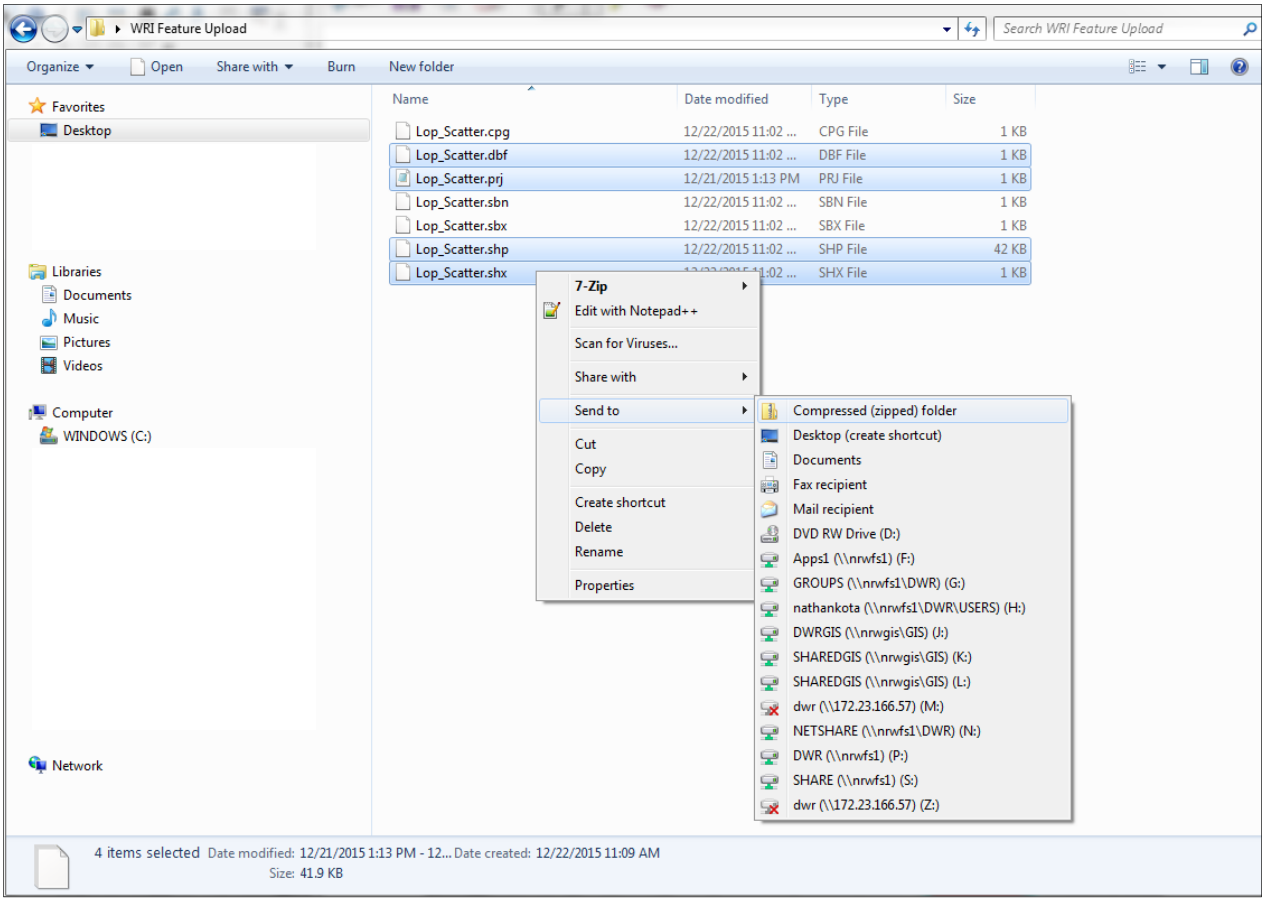


IV. The result of the Merge or Dissolve function will be a single record in the attribute table representing all features, also known as a multi-part feature



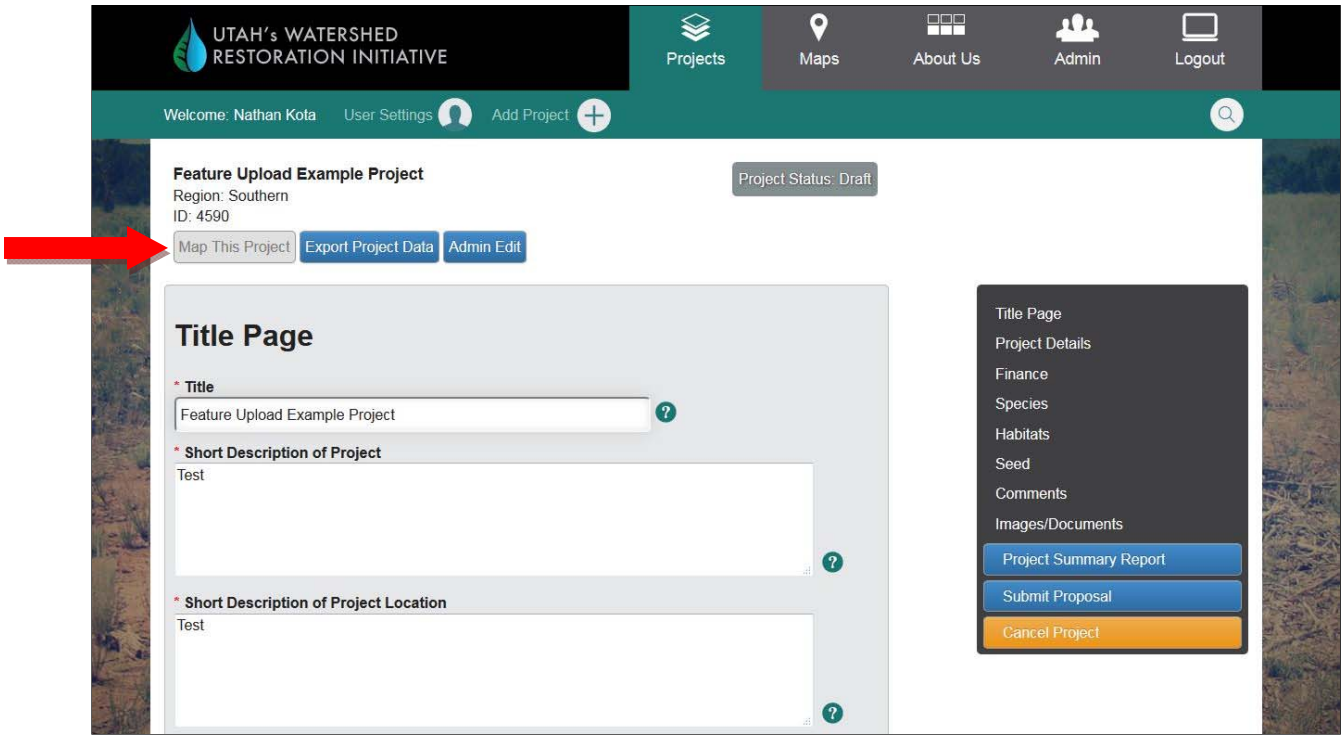
V. Navigate to the location of the files associated with the GIS data on your computer's hard drive, or other storage location

a) select at least the .dbf, .prj, .shp, .shx files
b) right-click and select Send to → Compressed (zipped) folder
c) The Compressed (zipped) folder is what you will upload to the WRI map application

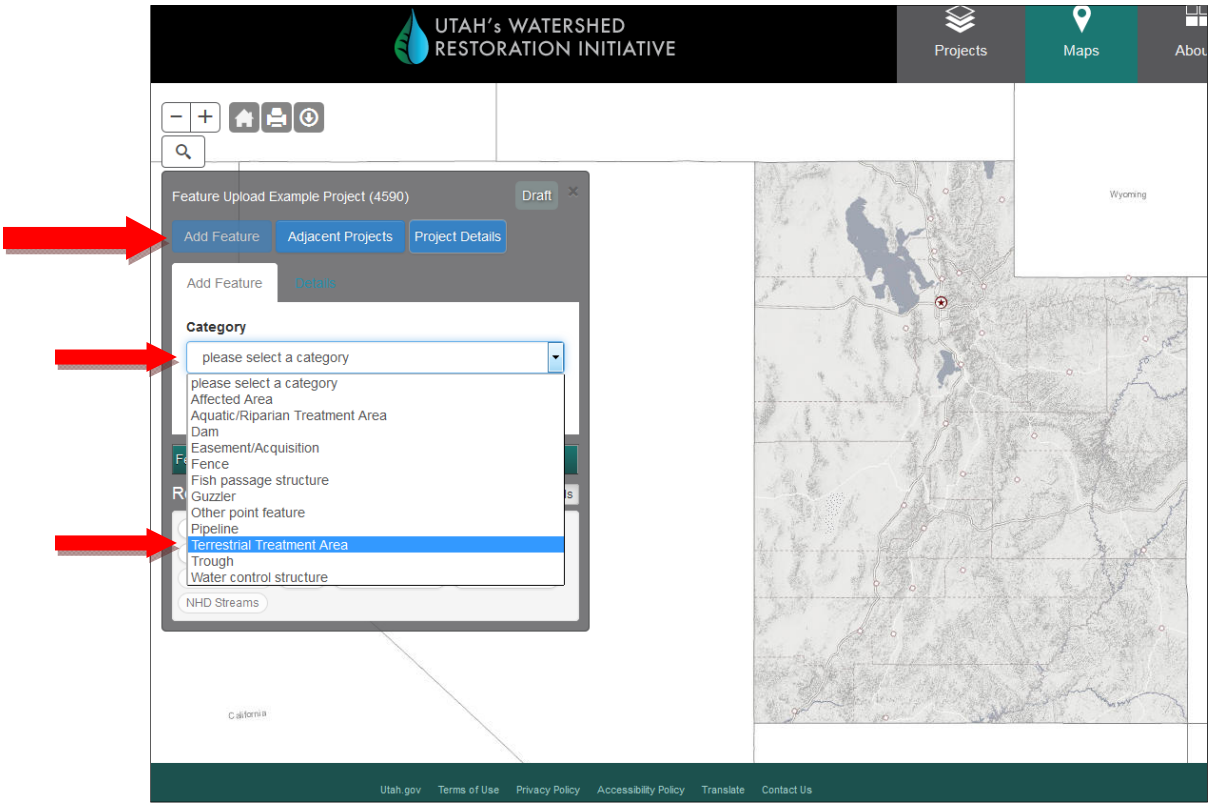


2 Upload GIS files to your WRI project

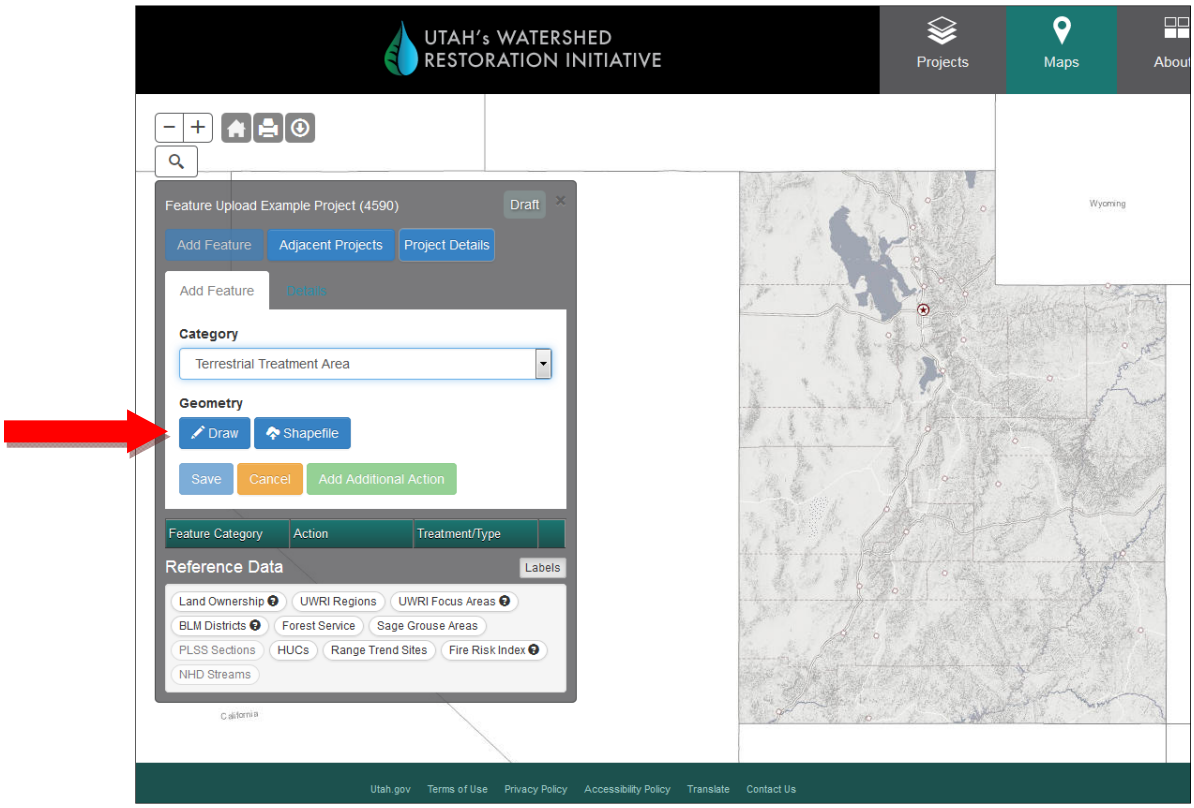
I. Access the map from your project's **Map This Project** button at the top of any of the project's data form pages



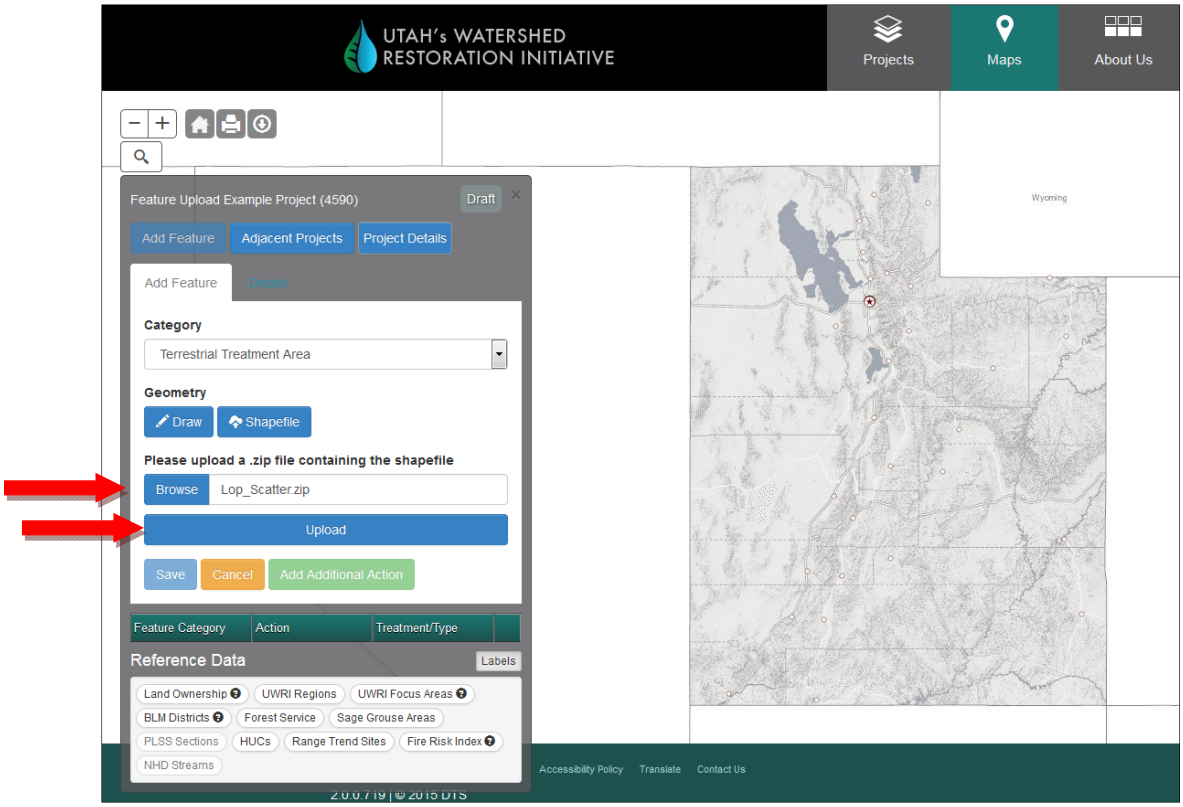
II. In the panel on the left side of the page, click Add Feature, and select the appropriate feature Category



III. Select **Draw** to manually digitize a feature on the map, or **Shapefile** to upload the zipped GIS files you created and saved



IV. Browse to the zipped folder containing the GIS files and click Upload



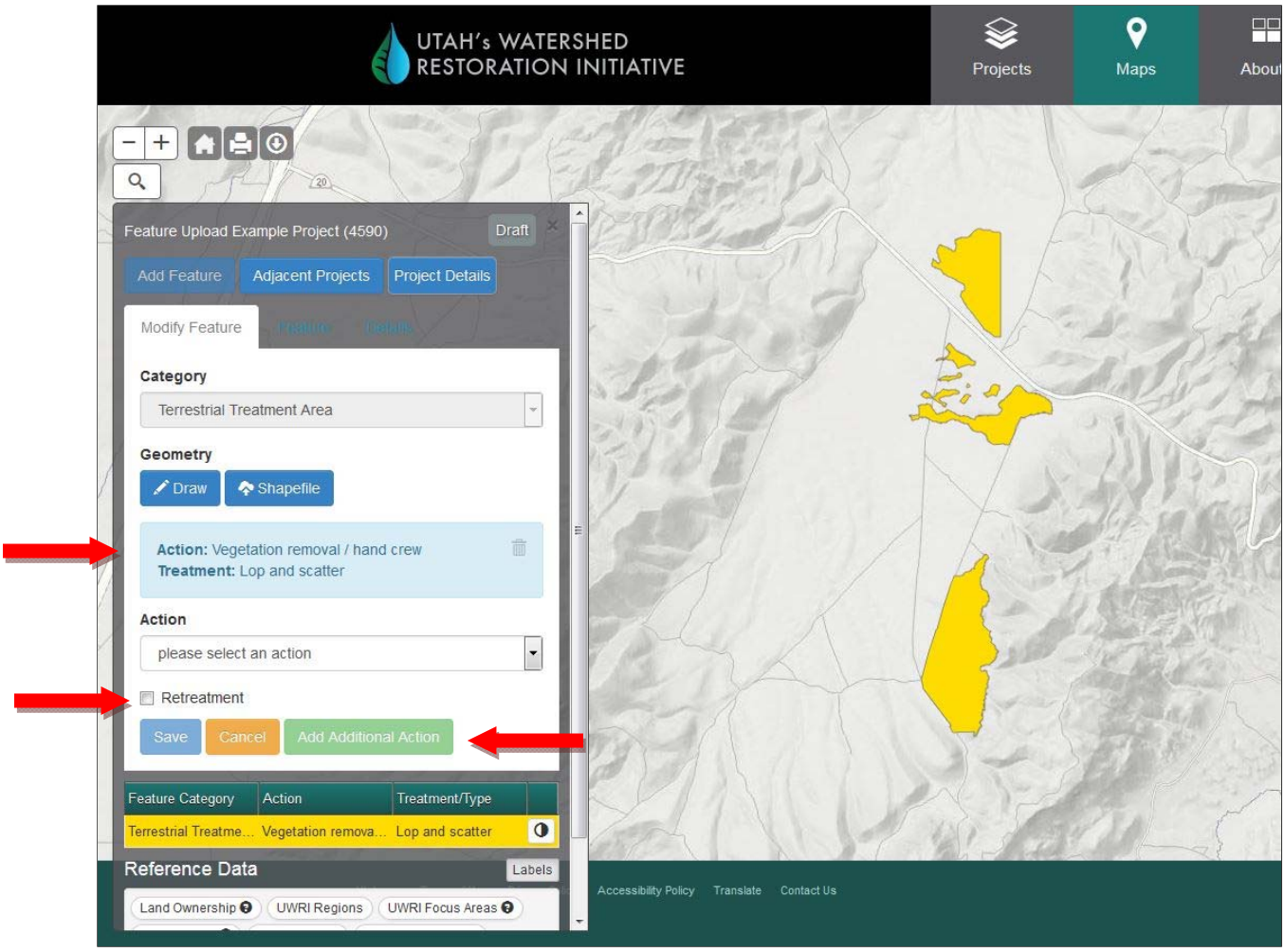
V. The map will render the features and zoom to them (features are not saved yet!)

a) Select the Action and Treatment combination(s) that describe the work that will be, or has been, done within the area.

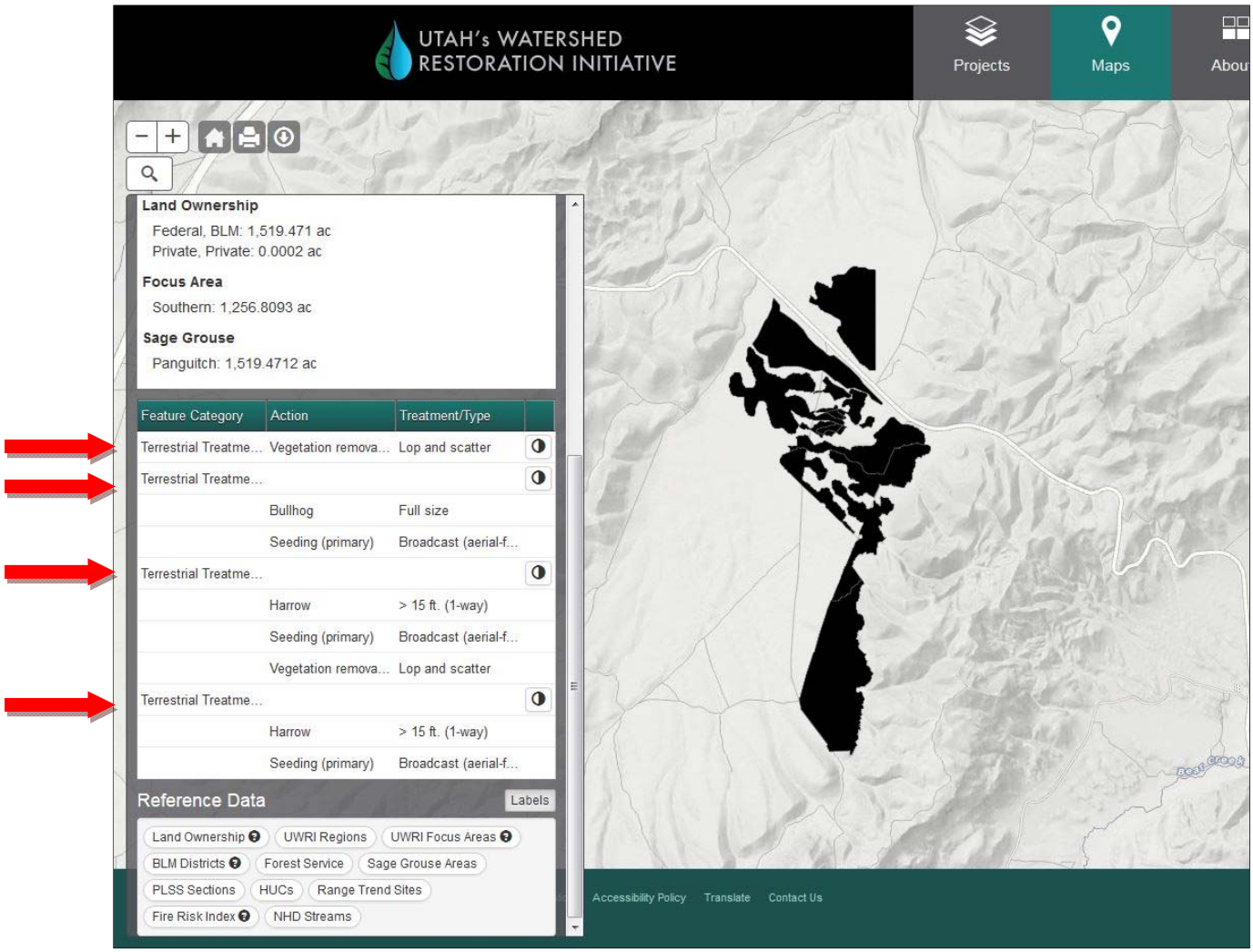
b) Select as many of those combinations by using the Add Additional Action button

c) Click the Save button when complete

d) If the area is a retreatment of a previous WRI project, click the "Reatreatment" box



VI. Upload any other features with unique Action/Treatment combinations necessary to accurately represent the project area



3 Important Information and Tips

I. The feature Category you select determines the type of feature that must be uploaded or digitized, as follows:

a) **Polygon**

i) Affected Area

ii) Aquatic/Riparin Treatment Area

iii) Easement/Acquisition

iv) Terrestrial Treatment Area

b) **Line**

i) Dam

ii) Fence

iii) Pipeline

c) **Point**

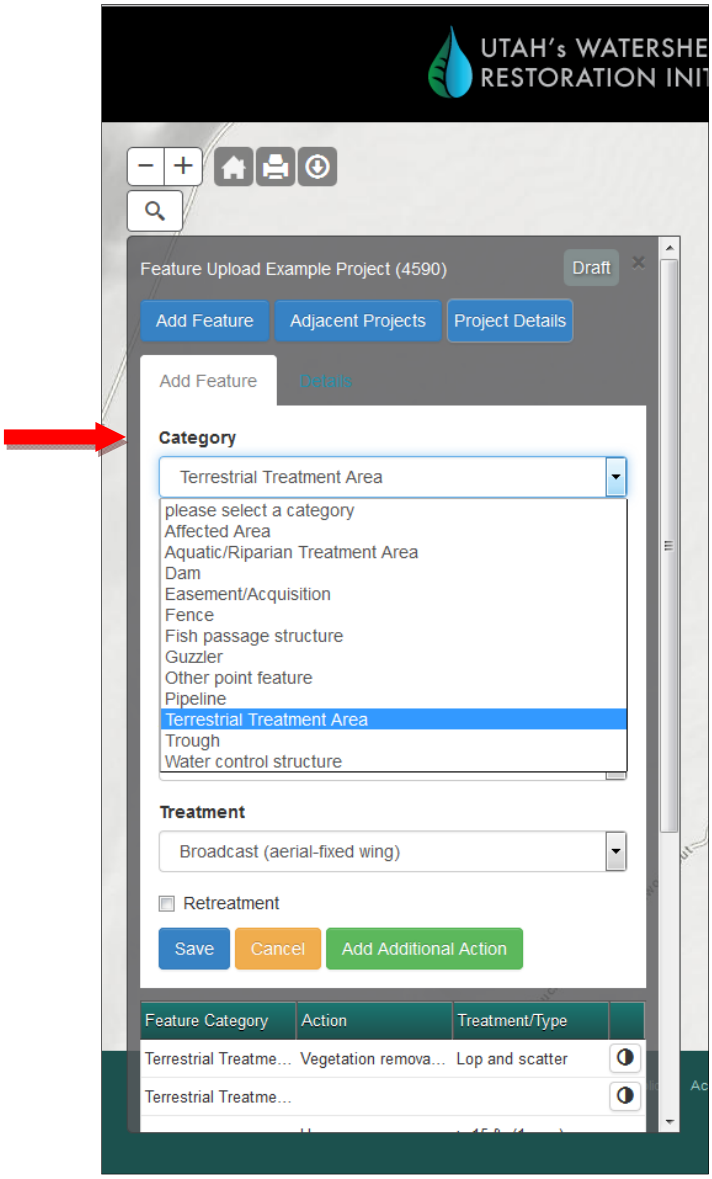
i) Fish Passage Structure

ii) Guzzler

iii) Other Point Feature

iv) Trough

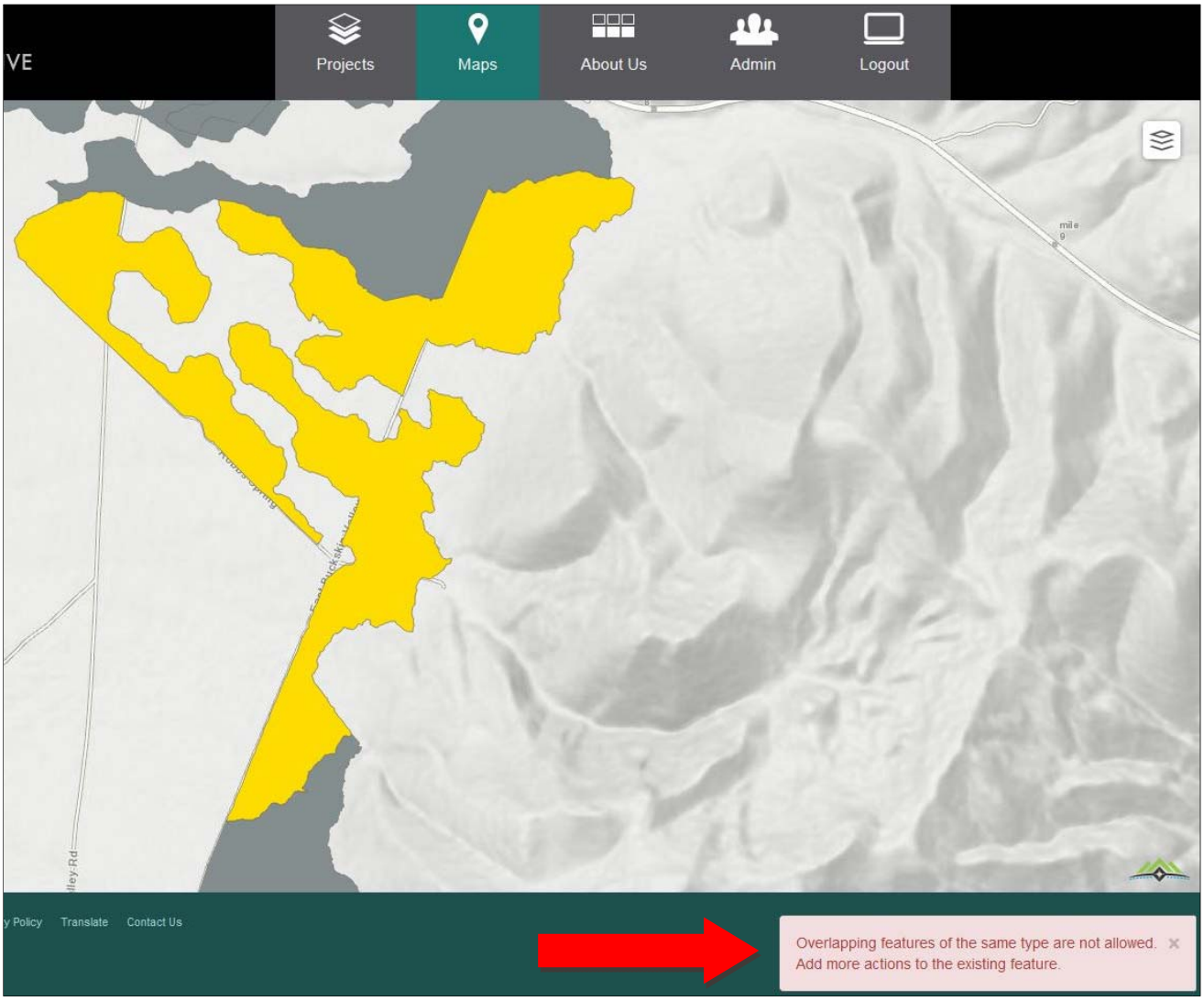
v) Water Control Structure



II. Features of the same Category type (e.g. Terrestrial Treatment Areas) within the same project may not overlap. However, features of different categories within the same project, or the same category from different projects, may overlap. If you receive an overlap error that disallows feature upload, try one of the following before attempting feature upload again:

a) In ArcGIS, use the Intersect tool on the features in question to determine the area of overlap between them, and adjust feature geometry accordingly.

b) In ArcGIS, use the Buffer tool to set a small negative buffer (e.g. -0.25 or less) on one of the features.



III. A common feature geometry error that disallows upload is the presence of two or more overlapping vertices. This can be detected by inspecting vertices in Editor mode in ArcGIS, and removing any overlap.

IV. If you encounter additional problems or difficulties, please use the Contact Us link at the bottom of the web page to submit questions to WRI administrators