

# *Geospatial File Guidance*

## **Method for collecting data for baseline data of disturbance**

- GPS units will be used to collect data along the perimeter of each disturbance.
- GPS data will be collected as individual polygons using GPS units along the edge of each disturbance based on attributes discussed below.
- The GPS units used must have a rated accuracy of 4 meters or better (95-percent confidence interval).
- The GPS data will then be converted into the format of a shape file and the data will be referenced to NAD 1983 (CORS 96), UTM Zone 13N, meters.
- Attributes may be collected during field collection using a data dictionary on the GPS Units or incorporated into the shape file after it has been created.
- The Rawlins Field Office (RFO) will provide any standardized data dictionaries that are requested.

## **GIS Shape File Requirements**

- The shape files will include all surface-disturbance.
- Shape files will be submitted at a minimum with the annual reclamation monitoring report on March 1 of each year for the previous year's work.
- Data will be submitted as polygons, not as point or line files
- A minimum of three shape files will be submitted with annual reports
  - Type 1 "Surface Disturbance" that includes all "as-built disturbance", interim/final reclamation, and long term disturbance data (annual submittals are dependent upon surface disturbance and reclamation occurring during each monitoring year)
  - Type 2 "Ecological Sites" that include polygons for ecological site information mapped to the as-built (this only needs to be submitted during the first annual report)
  - Type 3 "Weed Infestations" that include polygons for weed infestation associated with disturbance
- Polygons are required to have attributes (see details below)
- Submit your shape files to the BLM RFO, Attention: Reclamation Specialist
- Include a metadata file

## **Polygon Boundaries**

Shape file Type 1 "Surface Disturbance" polygons will be defined by the following:

1. As-built construction
2. Un-reclaimed (interim and long term) disturbance
3. Reclamation (interim and long term)

Shape file Type 2 "Ecological Site" (intended for reclamation and seed mix selection) will be defined by the following:

1. Delineation of Ecological Sites
2. Ready for Assessment by the BLM for rollover

Shapefile Type 3 "Weed Infestations" polygons will be defined by the following:

1. Weed Infestation patch (plants within 120 ft of each other)
2. Distinct polygon for each weed species

## Attribute Requirements

**Shapefile 1 “Surface Disturbance”** will contain the following attributes and be formatted as show in the table:

True Name	Site Number*	Lease/ROW Number*	API Number*	Project Name	Project Number	Project Feature	Date of Disturbance	Disturbance	Acres
Shapefile Alias	Site_Num	WYW_Num	API_Num	Projec_Nam	Proj_Num	Proj_Feat	Date	Dist_Type	Arces
Format	Text	Text	Text	Text	Text	Text	10/09/2007	Text	Integer
Width	20	20	20	50	20	50	10/09/2007	20	19
Example	489653	WYW-05598	49037233250	Silverfish	13-32	Well Pad	10/09/2007	As-built	5.40697
Example	489653	WYW-05598	49037233250	Silverfish	1A-32	Road	08/09/09	Unreclaimed	0.5366
Example	489653	WYW-05598	49037233250	Silverfish	13-5	Utility Corridor	04/23/2005	As-Built	16.2359

**Shapefile 2 “Ecological Site”** will contain the following attributes and be formatted as show in the table:

True Name	Site Number*	Lease/ROW Number*	API Number*	Project Name	Project Number	Project Feature	Ecological Site	Date of Disturbance	Disturbance	Acres	Ready For Assessment
Shapefile Alias	Site_Num	WYW_Num	API_Num	Projec_Nam	Proj_Num	Proj_Feat	ESD	Date	Dist_Type	Arces	Rollover
Format	Text	Text	Text	Text	Text	Text	Text	10/09/2007	Text	Integer	Text
Width	20	20	20	50	20	50	50	10/09/2007	20	19	10
Example	489653	WYW-05598	49037233250	Silverfish	13-32	Well Pad	Saline Upland	10/09/2007	Reclaimed	5.47	Yes
Example	489653	WYW-05598	49037233250	Silverfish	13-5	Road	Loamy	04/23/2005	Unreclaimed	16.29	No

**Shapefile 3 “Weed Infestations”** will contain the following attributes and be formatted as show in the table:

True Name	Site Number*	Lease/ROW Number*	API Number*	Project Feature	Weed Species	Patch Density	Treated	Treatment Type	Year Last Treated	Acres
Shapefile Alias	Site_Num	WYW_Num	API_Num	Proj_Feat	Weed_Spec	Patch_Den	Treated	Treat_type	Year_trea	Arces
Format	Text	Text	Text	Text	Text	Text	Text	Text	Integer	Integer
Width	20	20	20	50	50	20	20	50	19	19
Example	489653	WYW-05598	49037233250	Well Pad	Halogeton	Trace	Yes	Chemical	2007	5.40
Example	489653	WYW-05598	49037233250	Road	Spotted Knapweed	Low 1 to 5	No	“Null”	“Null”	0.67
Example	489653	WYW-05598	49037233250	Utility Corridor	Saltcedar	Medium 5-25%	Yes	Biological	2009	.50
Example	489653	WYW-05598	49037233250	Utility Corridor	Hoary Cress	High > 25%	Yes	Mechanical	2009	.1

\*Generated from the Reclamation Database

Shapefiles will be checked for accuracy by BLM personnel to serve as the baseline for all future disturbance measures pertaining to reclamation and rollovers and will correspond to the Reclamation Database.