

# Descriptions of GIS Mine Polygons Used in the Cumulative Impact Study

## West Virginia

### Original Source Description

The source of the GIS mine polygons for West Virginia used in this cumulative impact study is the a digital geographic database of coal mining permit boundaries, coal extraction polygons, and fill polygons produced by the West Virginia Division of Mining and Reclamation – Information Technology Office. These datasets are derived from hardcopy permit maps submitted to DMR. Hardcopy maps were scanned and georeferenced prior to extraction of features via on-screen digitizing by West Virginia University - Natural Resource Analysis Center. All datasets have been projected to UTM zone 17, NAD27.

### Description of Digital Data Base Queried for the Cumulative Impact Study

Staff from OSM’s Pittsburgh Office downloaded the most current digital database from West Virginia mining permits from West Virginia Department of Environmental Protection website: <http://129.71.240.42/data/omr.html>. Three GIS data layers -- permit boundaries, surface mine extraction areas, and valley fill areas – met the criteria established by the EIS Steering Committee for the cumulative impact study. This data set was filtered by using the last two digits of the permit identification number (the year the permit identification number was assigned) to include only those activities associated with new surface mining permitted after January 1, 1992. Further, using the boundaries of the EIS study area in West Virginia, a GIS specialist at OSM Pittsburgh Office used readily available querying tools in ESRI ARCVIEW software to select only those surface mining permits that were located wholly or partly within the EIS study area.

Below is a list of 142 West Virginia mining permits forwarded for inclusion in the cumulative impact study.

PERMIT_ID	PERMIT_ID	PERMIT_ID
s051799	s302693	s501592
s500997	s502197	s501400
s500999	s302193	s501494
s200995	s502097	s301496
s500593	s502095	s301492
s400597	s402095	s201496
s200599	s502393	s501796
s300599	s502399	s501798
s400401	s502297	s301794
s400497	s302299	s501694
s300495	s503595	s501194

s200499	s303593	s501092
s300499	s303793	s401096
s100495	s503195	s201092
s300795	s503097	s501300
s400699	s503095	s501396
s200697	s503395	s401396
s400199	s503295	s301396
s300195	s357600	s201398
s200197	s500900	s401298
s300199	s400998	s201298
s500395	s200896	s402596
s400399	s100896	s502598
s400397	s500596	s502496
s300295	s400596	s302794
s501895	s300598	s502698
s501899	s300400	s102192
s501597	s200494	s402096
s401595	s500700	s302300
s201593	s300796	s402396
s301599	s200798	s502296
s401499	s400600	s503996
s301693	s400698	s503792
s401197	s300696	s403192
s501095	s400198	s503096
s501395	s400300	s503392
s401395	s500396	s504692
s301393	s500394	s505592
s501297	s500398	s505792
s501299	s200396	s506692
s201293	s100394	s507492
s301299	s400200	s501594
s502997	s100200	
s502995	s300296	
s502597	s200294	
s502495	s501900	
s502493	s501998	
s502797	s401500	
s502799	s501596	

