MEMORANDUM FOR RECORD 2 Aug 2004

FOR DEPUTY ASSISTANT SECRETARY OF THE ARMY FOR INFRASTRUCTURE ANALYSIS (DASA (IA)

SUBJECT: Data Certification, Soil Resiliency Attribute for TABS Military Value Analysis (MVA)

1. TABS requested Soil HEL (Highly Erodible Land) classification data on 88 Army installations and an additional 8 Air Force and Navy installation. I collected the data, and in some cases, derived the HEL classification for the requested installations as described below. I am providing the data as an attachment to this memorandum.

a. Thirty Seven of the 96 installations have no training acreage reported, so no HEL classification was required. One installation (Blue Grass Army Depot) had the HEL class already determined.

b. Fifty Four (54) have the classification completed.

c. Five of the Navy and Air Force installations are still to be developed (Cannon AFB, Hill AFB, Luke AFB, Fallon NAS, and Camp Pendleton).

d. Two installations lack adequate spatial data, and I'm still attempting to acquire usable spatial data. This applies to Ft McPherson and Tobyhanna Army Depot.

2. The data used in the Soil Resiliency attribute for MVA was collected from a variety of certifiable sources. The equations used and actual data will be provided in a related report.

a. When available, HEL classification was taken from the NRCS (National Resources Conservation Service) NASIS (National Soil Information System) database. Information on NASIS can be found at http://nasis.nrcs.usda.gov/. Attribute data can be downloaded on a soil survey area basis from the NRCS Soil Data Mart at http://soildatamart.nrcs.usda.gov/.

b. Spatial data was taken from NRCS maps. In most cases, this consisted of SSURGO certified digital maps. SSURGO certification specifies that the digital data meets all requirements in the NRCS National Soil Survey Handbook (NSSH). SSURGO certified data can be downloaded from the NRCS Soil Data Mart at http://soildatamart.nrcs.usda.gov/. In some cases, I used STATSGO maps (less detail). STATSGO data can be downloaded from NRCS National Cartography and Geospatial Center found at http://www.ncgc.nrcs.usda.gov/branch/ssb/products/statsgo/. Where digital maps were not available, NRCS hard copy maps were used.

c. When required for deriving HEL classification, equation values were used from the following sources:

(1) Slope. LS factor from (Predicting Soil Erosion by Water: A Guide to Conservation Planning With the Revised Universal Soil Loss Equation (RUSLE), Agricultural Handbook No. 703.

(2) Climate. R factor from Agricultural Handbook No. 703.

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(3) Erosivity. K factor from NASIS.
(4) Water, Wind. T factor from NASIS;
(5) C factor (wind) from interactive C-value map at NRCS National Cartography and Geospatial Center found at http://nm6.ftw.nrcs.usda.gov/website/.

3. The data taken directly from the open sources listed above, and not changed from the sources, are certified as to the sources. The data derived from data taken from the above listed open data sources are certified as accurate and correct to the best of my knowledge.

4. POC is the undersigned at (410) 436-1561.

Enclosure

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