SRF ENVIRONMENTAL GRAPHICS GUIDANCE

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I. GENERAL GRAPHICS GUIDELINES:

All graphics must be clear and illustrate and label all proposed project elements. These elements typically include:

1. Treatment plants, as well as their incoming and outgoing lines;
2. Borrow areas (unless borrow will come from a commercial source or disturbed land);
3. Access roads;
4. Lift stations or booster stations;
5. Water lines or sewers (proposed manholes associated with proposed sewers do not have to be shown on environmental graphics);
6. Force mains & interceptors;
7. Storage towers (including incoming/outgoing lines);
8. Proposed well fields (including outgoing lines);
9. Backwash tanks (including incoming/outgoing lines).

We prefer 8.5" x 11", black and white graphics for ease of copying and scanning. However, color graphics are often more informative and are acceptable. Of course, if you overlay recent color aerial photos with project elements and/or environmental elements (wetlands, etc.), those are acceptable. Please do not use 11" x 17" graphics unless absolutely necessary; 11" x 17" graphics and their bar scales must remain clearly readable when reduced to 8.5" x 11".

II. ENVIRONMENTAL GRAPHICS CHECKLIST

Please include the completed checklists and environmental graphics in the Environmental Evaluation discussion in the PER.

II-A. PLEASE USE CHECKLIST BELOW TO ENSURE THAT GRAPHICS HAVE:

___ an **accurate bar scale** (schematics, street level photos and Interim Report maps are excepted);
___ **bar scale large enough so that it remains legible if the graphic is reduced;**
___ **accurate north arrow (schematics and street level photos are excepted);**
___ **a figure number;**
___ **stream crossings labeled or indicated (on at least one graphic);**
___ **cemeteries labeled (if the project is next to one)**
___ **and a legend**

II-B. PLEASE USE CHECKLIST BELOW TO ENSURE THAT GRAPHICS CONFORM WITH PART III: GUIDANCE FOR SPECIFIC MAP TYPES

1. **National Wetlands Inventory (NWI) Map**
   Yes, the PER wetland maps meet the guidelines ☐

2. **100-Year Floodplain Map**
   Yes, the PER 100-year Floodplain maps meet the guidelines ☐

   No 100-year Floodplain map is available for all or part of the project area ☐

3. **Interim Report (Historic Sites/Structures Maps)**
   Yes, the PER Historic Structures maps meet the guidelines ☐

   Some or all of the project area is not covered by an IR map ☐

4. **Soils Map**
   Yes, the PER Soils maps meet the guidelines ☐

   Soils map not needed, per SRF ☐

5. **Topographic Map**
   Yes, the topographic maps meet the guidelines ☐

   Topographic map not needed, per SRF ☐

6. **Photographs**
   Yes, PER Photos meet the guidelines ☐

III. GUIDANCE FOR SPECIFIC MAP TYPES

1. Wetlands Map Guidance:

Please do not use the federal internet wetland mappers, such as the EPA Enviromapper, USGS National Map, USFWS Geotract or USFWS Wetlands Mapper, or any others. Instead, **we recommend producing graphics using The IndianaMap**: http://inmap.indiana.edu/viewer.htm; see this site's Map Output feature. This site allows you to see wetlands, 100-year floodplains (for most counties), 2005 high resolution aerial photos (the clearest photos available for areas outside of central IN), USGS topographic maps, topo sections, etc., as well as being able to do simple drawings, length and area measurements, exporting, printing and other functions. In addition, 2007 high resolution aerial photos are available for central IN counties. If a local government entity has its own GIS, you may use that, if it is kept up to date and includes all wetlands—however, most do not illustrate riverine wetlands. The IndianaMap is the simplest and most accessible tool to use. To see wetlands, activate the following layers: wetlands and wetland lines. Wetland "lines" are wetlands (usually riverine wetlands).

2. 100-Year Floodplain Map Guidance:

If The IndianaMap has a DFIRM layer in the Hydrography folder for your project area, we recommend deriving a graphic from that. Also acceptable: drawing and labeling the project elements on the most recent FEMA FIRM (Flood Insurance Rate Map) or Flood Hazard Boundary maps, if available. Some project areas may not participate in the FEMA program and will not be mapped. See http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1 to electronically view and print floodplain maps.

3. Soils Map Guidance:

The need for this will be determined on a case-by-case basis. Typically, a soils map is needed only when a project will affect undisturbed land of archaeological significance. Such land is typically defined as farmland or other areas that have not been recently disturbed to a depth of 10 inches or more by previous construction activity. These maps should be as clear as possible and not dark.

4. Topographic Map Guidance:

For projects in cities, this map may not be necessary, but we have found exceptions. IDNR's environmental reviewers like to see projects shown on topo maps, especially projects in non-urban areas. The need for these will be determined on a case-by-case basis. These maps should be as clear as possible and not dark.

5. Photos Guidance:

Photos of proposed construction sites or routes are a good idea and may be required by the IDNR Division of Historic Preservation and Archaeology (DHPA). DHPA likes streetscape photos of line routes in historic districts, but has not required them lately. Such photos should have titles and be keyed to a photo key map, with arrows indicating which direction the camera was facing. Photos of proposed construction sites should have titles which indicate which direction (east, west, etc.) the camera was facing.

6. Historic Sites and Structures Guidance – Interim Report Maps:

Most Indiana counties, some cities, and Indianapolis townships have an Interim Report (IR) which lists the local historic and structural resources inventoried at the time of publication. Consult the latest county IR of Historic Sites and Structures; see **http://www.historiclandmarks.org/Resources/ArchitecturalSurveys/Pages/SurveyReports.aspx. Please photocopy the entire map page you need, being sure you include the map title and page number**. Draw your proposed project elements on it, being sure to note cemeteries; cemeteries should be labeled on other project maps, also, if the project is with 100 feet of one. There is no need to derive a scale for IR maps. Please be sure to use every map which shows any part of a proposed project. If there is no Interim Report for your county, please call Max Henschen, 317-232-8623 for guidance; you will probably have to research DHPA files in Indianapolis.

In addition to the IR maps, please consult the DHPA website addresses listed below to see if properties have been added to the state or national registers of historic places since IR publication. If your project will install/rehabilitate a line or structure near those sites, those new listings should be labeled on the IR maps or on another graphic. For Indianapolis projects, please indicate on the map which township IR the map comes from. After you have checked these sites for project-related information, please note in the PER text that they have been checked.

1. http://www.in.gov/dnr/historic/files/hp-nrlist.pdf. *Indiana Properties Listed on the State and National Registers*. *does NOT have site addresses*. Last updated January, 2011. This web address has IN properties on the State and National Registers, updated quarterly.

2. http://www.in.gov/dnr/historic/files/hp-srlist.pdf. *Indiana Properties Listed only on the State Register*. does NOT have site addresses. Last updated January, 2011. This web address has IN properties listed only on the State Register.

3. http://www.in.gov/dnr/historic/4202.htm. The *Preserving Indiana* newsletter is issued twice per year. Each issue has recent listings to the National Register of Historic Places, usually without addresses. No issues past 2009 are currently on the DHPA website.

4. http://www.in.gov/dnr/historic/files/historicindiana.pdf. *Historic Indiana: Indiana Properties Listed in the National Register of Historic Places*. has addresses. has a National Register listing of properties by county, as well as a listing of sites in the State Register. The listings in this file are current only through 8-31-02. This is a large .pdf file and will take a while to load, unless you have broadband access.

5. http://www.nps.gov/history/nhl/designations/Lists/IN01.pdf. for a listing of Indiana's National Historic Landmarks.