

SPECIAL PUBLIC NOTICE

Draft Map and Drawing Standards for the South Pacific Division Regulatory Program

March 5, 2012

Comment period: ends April 5, 2012

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Introduction: This notice establishes standards and guidelines for maps and drawings submitted as part of delineations and applications for U.S. Army permits and jurisdictional determinations. The intent of these standards is to improve the quality and consistency of maps and drawings and simplify and improve review and processing by Corps Regulatory project managers. We estimate that at least 70-80% of maps and drawings submitted to the Corps Regulatory Program in South Pacific Division (comprised of Albuquerque, San Francisco, Sacramento, and Los Angeles districts) already meet the majority of these standards. By adhering to a single standard for maps and drawings, applicants and consultants should have a clear and concise product, and project managers should be able to provide permit decisions and jurisdictional determinations in a more consistent and timely manner. In addition, electronic mapping of permit-related maps and drawings will enable data sharing with other resource agencies for coordination of mitigation decision-making.

Applicability: These standards apply to all submittals to Regulatory Divisions, within the Districts of the Corps' South Pacific Division. At the Corps' discretion, however these standards may be waived for small projects or activities with small or temporary impacts to waters of the U.S. (e.g., less than a tenth of an acre), where the applicant possesses limited financial resources (e.g., private homeowners and small land owners), emergencies, or for reauthorization of previously-authorized work, maintenance or repair and/or rehabilitation projects where the original authorization included adequate drawings that are available. In general, compensatory mitigation plans must adhere to these standards, regardless of whether the standards are waived for the overall project.

This Public Notice solicits comments from the general public. Comments should be mailed to:

U.S. Army Corps of Engineers South Pacific Division, CESPD-PDS-O, 2042B ATTN: Tom Cavanaugh 1455 Market Street San Francisco, California 94103-1399

Alternatively, comments can be sent electronically to: Thomas.J.Cavanaugh@usace.army.mil

Standards:

1) General:

- a. Documents must include at a minimum: location (vicinity) map(s) and plan view map(s). Mitigation plans and construction drawings should also include representative cross-sectional views. Delineation maps should be provided for the project area, staging areas, disposal sites, access routes, and proposed mitigation sites, etc.
- b. The orientation of the map on the page (as it is read) should be the same for all maps submitted.
- c. By convention, North will normally be toward the top of the page.
- d. The reference elevation datum must be indicated on both plan and section view maps and drawings.
- e. Procedure: the Corps will review submitted maps and drawings for conformance with these standards. Documents not meeting the standards may be returned for revision.

f. Base maps:

- a. If aerial photographs are used, these must be orthrectified, date-stamped, and with the imagery source identified on the map.
- b. Date of imagery should be chosen such that aquatic resources have maximum visibility (e.g., during wet season).

g. Format:

- a. Both paper and electronic versions of documents are required; however, submittal of electronic documents may be waived on a project-specific basis for applicants without access to the appropriate software. For electronic documents, Adobe PDF format is preferred.
- b. Size: If larger than 11 x 17 inches, documents must be folded to fit within a 8.5 x 11 inch binder.

h. Plan view:

- a. At least two control points on opposite corners with latitude and longitude clearly annotated.
- b. North arrow.
- c. Bar scale and text scale (e.g., "1 inch = 100 ft").
- d. Legend for any relevant items shown (e.g., wetlands and/or other water types).
- e. Annotate clearly showing the location of cross-sectional views (e.g., "A-A' ")
- f. Date prepared/revised.
- g. Name and organization of map preparer.
- h. Appropriate landmarks (on-site and nearby roads, prominent structures and/or topographic features, etc.)

i. Cross-sectional view:

- a. Must include a bar scale <u>and</u> text scale (e.g., "1 inch = 100 ft") for horizontal and vertical dimensions.
- b. If there are tidal areas within the survey area, identify the location and elevation of Mean High Water and the High Tide Line on all maps and cross-section drawings when appropriate.

2) Location (vicinity) map(s):

- a. One or more vicinity maps should be submitted, at least one of which must use a USGS 7.5- minute quadrangle sheet as its basemap (if no USGS quadrangle is available, another accurate local map may be used as a basemap) with the project study boundary clearly outlined and the quadrangle name included on the map.
- b. Does not need to be to-scale, but must include commonly recognizable landmark(s).
- c. Should include north arrow.
- d. Project location should be clearly marked and annotated.
- e. Should include adjacent local roadways.

3) Proposed projects:

- a. Show all proposed fills, structures, and /or limits of work within and adjacent to potential waters of the U.S., including wetlands.
- b. Clearly annotate all fills, structures, and /or limits of work as either permanent or temporary.
- c. Pre-construction drawings (grading plans) and post-construction drawings (as-built plans) must include name, company/agency, and signature of preparer, date signed, drawing title, and total number of sheets.
- d. Both plan view and cross-sectional view maps should be provided.

- 4) Post-construction drawings (as-built plans):
 - a. Both plan view and cross-sectional view maps should be provided.
 - b. Should be the same size and alignment (spatial) as authorized grading plans (i.e., grading plans and asbuilt plans should overlay such that structures, boundaries, etc. align).
 - c. Show any deviations from the fills and/or structures authorized as part of an approved pre-construction drawing in red.

5) Delineations of waters of the U.S.:

- a. Both plan view and cross-sectional view maps should be provided.
- b. Clearly show location and extent of all areas potentially meeting the criteria for waters of the U.S., including special aquatic sites (e.g., wetlands, sanctuaries and refuges, mudflats, vegetated shallows, and riffle and pool complexes), and/or navigable waters. Each type of boundary (e.g., ordinary high water mark) should be clearly annotated and/or symbolized and each distinct feature given a distinct identifying letter or number with individual acreage in legend or accompanying table. Ordinary high water mark boundaries should be depicted using a bold, dotted line. Mean high water boundaries should be depicted using a bold, dashed line. Wetlands should be depicted using right hatching. Special aquatic sites, other than wetlands, should be depicted using stippling. Section 10 waters should be depicted using crosshatching.
- c. A solid line should be used to clearly define the survey area boundary which should include all potential waters of the U.S. The survey area boundary encloses the spatial area for which a Corps jurisdictional determination is being requested. Show locations of any soil pits, labeled according to the corresponding wetland delineation form (e.g., "SP5" corresponding to wetland form #5).
- d. Include representative ordinary high water mark (OHWM) elevation and widths where measured in the field (averages may be acceptable for uniform channel reaches).
- e. Identify all areas that potentially meet the criteria for waters of the U.S. including special aquatic sites (e.g., wetlands, sanctuaries and refuges, mudflats, vegetated shallows, and riffle and pool complexes), and/or navigable waters with symbols and a legend that will survive black and white reproduction. Include information not directly related to a delineation of waters of the U.S. on a separate map(s).
- f. If there are tidal areas within the survey area, identify the location and elevation of Mean High Water and the High Tide Line on all maps and cross-section drawings.

6) Mitigation plans and long-term preservation (LTP) maps (see attached example map):

- a. Both plan view and cross-sectional view maps should be provided.
- b. Mitigation boundaries must be clearly differentiable based on mitigation type: establishment, reestablishment, rehabilitation, enhancement, and preservation only. Establishment boundaries should use a dotted line. Re-establishment boundaries should use a dashed line. Rehabilitation boundaries should use an alternating dash-dot-dash line. Enhancement areas should use a hatched line. LTP boundaries (preservation) should use a single, bolded line. For a definition of mitigation terms, see 2008 Mitigation Rule (33 CFR Part 332).
- c. All mitigation sites and LTP boundaries should be clearly labeled (e.g., site A, B, and C).
- d. Locations of mitigation sites should be shown relative to other landscape features and habitat types (e.g., riparian corridor, wetland complex, etc.).
- e. GIS data must conform to the following data dictionary and should include a text file of metadata, including datum, projection, and mapper contact information.

Data dictionary for mitigation and LTP site boundaries:

Field	Field type	Description
DA_NUMBER	Text, 14 characters	Regulatory (ORM) file number (e.g., SPL-2008-00282)
LTP_BNDRY	Text, 5 characters	Type of long term preservation required: conservation easement (CE), deed restriction/restrictive covenant (DR/RC), natural resources management plans (NRMP), or none (NONE)
MIT_TYPE	Text, 2 characters	Type of mitigation required: establishment (ES), re-establishment (RE), rehabilitation (RH), enhancement (EN), or preservation only (PO)
MIT_STATUS	Text, 1 character	Mitigation implemented? Yes (Y) or No (N)
НАВ_ТҮРЕ	Text, 5 characters	Habitat type: aquatic [OBL or FACW status on National Wetland Plant List: http://geo.usace.army.mil/wetland_plants/index.html] (AQ), non-aquatic [UPL or FACU status] (NONAQ), or transitional [FAC status] (TRAN)
DATE_MAPPED	Date	Date GIS data produced

7) Mitigation monitoring report maps:

- a. Any ground photographs included in a mitigation monitoring report should be accompanied by a map of photo-points. Each photopoint should be annotated to show its geographic coordinates (latitude, longitude) and the compass direction in which the photograph was taken (e.g., a dot with an arrow).
- b. Each discrete mitigation site (i.e., polygon) should be shown on a map, annotated or symbolized to indicate the target habitat type and the mitigation type.
- c. Any sampling presented in the monitoring report should be shown on a map, including locations and extent of sampling points, transects, quadrats, etc.

<u>Updates</u>: These standards may be updated periodically. The most current version will be posted on the SPD Regulatory Program website (http://www.spd.usace.army.mil/cwpm/public/ops/regulatory/index.html).

Figure X. Happy Frogs development mitigation sites

