US Army Corps of Engineers
Minimum Standards for Acceptance of Aquatic Resources Delineation Reports
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Zachary Simmons
Senior Project Manager,
Enforcement and Special Projects Unit
US Army Corps of Engineers, Sacramento District
Delineations and Map & Drawing Standards

- Effective: Delineation Maps and Drawings
  January 2016 February 10, 2016

- Quality, Consistency, and Accuracy

- Simplify review and minimize delays

- Must be followed unless it is not practical

Exceptions determined on a case-by-case basis
- Under 0.10 acre
- Limited Financial Resources
- Emergencies
Delineation Checklist

DELINEATION REPORT

- Cover Letter identifying PJD or AJD
- Signed permission to enter
  - Includes access through private property
- Contact Info
  - Applicant, Property Owner, Agent
- Total acreage of survey area
Delineation Report

- Statement conducted in accordance with:
  - ‘87 Manual;
  - Appropriate Regional Supplements; and
  - OHWM Field Guide

- Discussion
  - Hydrology
  - Plant Communities
  - Soils, include soil map
  - Interstate or Foreign Commerce
Delineation Report

- Methodology for *Remote Sensing*, if used
- Dates of field work and Description of field conditions
  - Wet, dry, drought years, irrigation, etc…
- Table of all aquatic resources
  - Name
  - Cowardin type
  - Acreage / Linear feet
  - Lat/Long
Delineation Report

- Describe all aquatic resources
  - Explanation of boundaries
  - Rationale for not mapping potential features
    - Potential signatures on the aerial
    - Do not meet 3 criteria

- Methods for mapping boundaries
  - GPS equipment ($\leq 1$ meter) is required
  - Justify rationale for any deviation
Appendices

- Completed Data Forms
- Aquatic Resources Spreadsheet
  - Link in checklist
- Digital data
  - GIS, ESRI shapefiles
  - Metadata file; coordinate system, projection, and datum
  - If no GIS, mark boundaries with flags
Maps and Drawings

- Location (Vicinity) and Plan View Maps
  - Cross-sectional views
  - Include staging, disposal, access, and mitigation sites

- Same Orientation for all maps (North up)

- Format:
  - Submit both paper and electronic versions,
  - Fold larger maps to fit within an 8.5” x 11”
  - GIS data and associated metadata
    - (ESRI shapefiles)
Maps and Drawings

- Base Map:
  - Aerial photographs must be orthorectified
  - Date and source of imagery identified on map
  - Date of imagery should be when aquatic resources are visible (e.g. wet season)
  - At least one map showing topography
Maps and Drawings

- Plan View:
  - Two control points with Lat/Long
  - North Arrow
  - Bar and text scale, not to exceed 1” = 400’
  - Legend
    - Area in parenthesis for each item
  - Date prepared/revised
  - Name & Organization of preparer
Maps and Drawings

- Location (vicinity) Map:
  - USGS 7.5-minute quadrangle
  - Does not need to be to scale
  - Project location clearly marked
  - Include roadways and landmarks
Maps and Drawings

- Proposed Project:
  - Clearly identify limits of project area
  - Show all fill, structures, limits of work within all potential waters of the U.S.
    - Identify permanent or temporary
  - Show delineated waters within project area
  - Completed ORM impacts sheet
Maps and Drawings

- Post Construction (As-Builts):
  - Both plan view and cross-sectional view
  - Same size and alignment as authorized grading plans
  - Show deviations from authorized plans in red
Maps and Drawings

- Delineation Map:
  - Plan view, cross-sectional upon request
  - Clearly identify survey area
  - Show location and extent of all potential waters of the U.S.
  - Each water type must be differentiable
  - Location of all paired data points
  - OHWM widths
Maps and Drawings

- Delineation Map continued:
  - Tidal – Mean high tide line with cross section
  - Each polygon must be clearly labeled
    - Feature type and unique number
      (i.e. SW1, SW2, VP1, VP2, etc.)
  - Completed ORM Aquatic Resources sheet
Maps and Drawings

- Mitigation Map:
  - Both plan view and cross-sectional view
  - Clearly differentiable based on aquatic resource type and mitigation type
  - Each polygon must be clearly labeled with unique name
  - Completed ORM mitigation sheet
Maps and Drawings

- Ground Photograph Map:
  - Any ground photos must be accompanied by a map of photo points
  - Unique label of each point
  - Compass direction of photo
  - Include a table
    - Name and date of photo
    - Lat/Long
    - Compass direction
    - Brief explanation of relevance
Additional Helpful Info

- Topographic maps
- LIDAR (Light Detection and Ranging)
- NWI (National Wetland Inventory)
- Satellite Photos
- Aerial and Ground Photos
- Floodplain Maps
Contact Information

Sacramento District Regulatory Office:
Main: 916-557-5250
FAX: 916-557-7803

Zachary Simmons: 916-557-6746
Zachary.M.Simmons@usace.army.mil