

Statement of Qualifications

Floodplain Engineering

for

National Flood Insurance Program Compliance

2010



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STATEMENT OF QUALIFICATIONS

OUR COMPANY

H & H Resources, Inc. was founded in 2001 as a civil engineering consulting firm that assists clients in finding practical, feasible, and economical design and permitting solutions. In doing so, our goal is to deliver products and services that are on time, accurate, and within budget. **HHR** has a particular specialty in drainage engineering related to the National Flood Insurance Program (NFIP), and also provides other related civil engineering services.

Our principals, Eric Friedrich, P.E., CFM and Wayne Fowler, P.E., CFM, each have over 25 years of experience. The staff includes additional registered professional engineers plus technician and administrative support, bringing to the firm a variety of design experience and resources for accomplishing project tasks.

To illustrate our company's varied background, our engineers have worked as staff or consultants for the following public entities:

- U.S.D.A Natural Resources Conservation Service
- Texas Department of Transportation
- Georgia Department of Transportation
- Fort Bend County Toll Road Authority, Texas
- Cities of Houston, Fort Worth, Bryan, Georgetown, Texas
- Cities of Albany, Douglas, and Hiawassee, Georgia
- Georgia Counties: Union, Henry, Lee, Fulton
- Harris County, TX Flood Control District
- Texas A&M University's Texas Engineering Extension Service
- UT Austin Center for Lifelong Engineering Education
- University of Texas at Arlington

In an effort to serve our clients better, our engineers continue to update their skills by receiving continuing education in various software programs and engineering topics related to drainage floodplain management. As leaders in our profession, we provide instructors and training courses in the fields of hydrology, hydraulics, and erosion control. Our principals or employees have been involved in the development of drainage standards, policies, and procedures for local and state governments, and have published technical and research documents.

HHR is registered as a consulting engineering firm to practice in the states of Texas, Georgia, and North Carolina.

OUR FLOODPLAIN ENGINEERING PRACTICE

HHR has the project experience to offer these services on floodplain-related projects:

- Engineering
 - Watershed hydrology
 - Floodplain mapping
 - Bridge and culvert hydraulics
 - Channel improvements
 - Stormwater management (detention, retention, water quality)
 - Floodplain impact analysis
 - Scour analysis
 - Master planning
- Floodplain Management
 - Floodplain administration
 - Hazard Mitigation planning
 - Third party review of reports/designs
 - CRS program assistance
- NFIP-related Submittals
 - MT-1: CLOMA, LOMA, e-LOMA, CLOMR-F, LOMR-F
 - MT-2: CLOMR/LOMR
 - Floodway No Impact analysis and certification
 - Base Flood Elevation (BFE) determinations

Our drainage engineering work requires us to be knowledgeable about coordination with local floodplain administrators and regulations, state departments of transportation, the U.S. Army Corps of Engineers, state environmental agencies, and local flood control districts.

Our engineers have used a variety of design software, aids, and procedures, including:

- HEC-1, HEC-HMS
- HEC-2, HEC-RAS
- EPA-SWMM
- NRCS TR-20, TR-55, WSP-2
- USGS PeakFQ
- Geopak Drainage
- Georgia Stormwater Management Manual
- FEMA Flood Insurance Studies (FIS), Flood Insurance Rate Maps (FIRM)
- FEMA Guidelines and Specifications for Flood Hazard Mapping Partners
- FHWA HDS 6, *River Engineering for Highway Encroachments*
- FHWA HY-8, *Culvert Analysis*
- FHWA HEC No. 18, *Evaluating Scour at Bridges*
- FHWA HEC No. 20, *Stream Stability at Highway Structures*
- FHWA HEC No. 23, *Bridge Scour and Stream Instability Countermeasures*

Certified Floodplain Managers

We believe our Certified Floodplain Manager (CFM) qualifications are indicative of our ability to provide floodplain engineering for public and private clients. Seven members of our staff, including both principals, have CFM credentials. Four were certified by the Texas Floodplain Management Association (TFMA) and three by the Association of State Floodplain Managers (ASFPM).

Floodplain Management

HHR has experience with various issues related to floodplain management. We can assist a community with ordinance review, recommendations for changes, and review by the state floodplain coordinator. Our staff can guide a community as it implements and updates its floodplain program, and integrate it with building permitting and inspections. Only communities with an approved hazard mitigation plan can apply for a Hazard Mitigation Assistance (HMA) program grant from FEMA. Assisting a community prepare its hazard mitigation plan is a service we offer. Communities that elect to participate in the Community Rating System (CRS) earn discounts for its citizens' flood insurance premium rates. **HHR** can assist a community in planning its approach, documenting its activities, applying for CRS status, and coordinating with the ISO/CRS Specialist.

Floodplain Mapping, Revisions

In general, NFIP regulations related to changes in a mapped floodplain are found in 44 CFR 60.3 and 65. These regulations specify allowable impacts for construction in a floodplain or floodway, and the processes for documenting these impacts. The "Guidelines and Specifications for Flood Hazard Mapping Partners" describes FEMA's methods for analyzing or revising floodplains. **HHR** has completed at least 8 projects in the last 2 years that required a working knowledge of the procedures described in these documents. Many communities have adopted local regulations to supplement the minimum required by NFIP. We always coordinate with the local floodplain administrator to ensure compliance with local regulations.

A Conditional Letter of Map Revision (CLOMR) is FEMA's comment on a proposed project that would affect the hydrologic and/or hydraulic characteristics of a flooding source, including its floodway and base flood elevations (BFE). Typically, a request for Letter of Map Revision (LOMR) is filed within 180 days of completing the project approved in the CLOMR, and formalizes the changes. Both of these submittals to FEMA require a review of the effective hydrologic and hydraulic models, new models to show the revisions, preparation of exhibits depicting the proposed project, and possibly notifications to affected property owners. Analysis of effective floodplain models often requires knowledge of modeling techniques less commonly used today. **HHR** has interpreted and used effective data modeled in TR-20, SWFHYD (aka: NUDALLAS), HEC-1, HEC-2, and WSP-2.

If a project is shown to have No Rise/No Impact, then a CLOMR is not required under NFIP. A community has the option to require FEMA review even if NFIP regulations do not. Floodway no rise is interpreted as 0.00 ft. in the base flood elevation (BFE, or 100-yr event). If no floodway is defined, rise in BFE is limited to 1 ft. of impact according to NFIP, but some communities have adopted a stricter standard of allowing no (0.00 ft.) of rise in BFE. Meeting these standards often requires trial attempts to identify appropriate mitigation measures. The preparation of No Rise/No Impact certification requires steps similar to CLOMR/LOMR. The document is submitted to the local community's floodplain administrator who may elect to accept it, review and comment on it, or refer it FEMA. No Rise certifications referred to FEMA must be submitted as a CLOMR with associated review fees.

According to FEMA guidelines, new hydrology should be prepared as gage analysis, regression equation, or rainfall-runoff model, with preference in that order unless limiting factors exist. If no gage analysis is applicable, regional regression equations should be used. If a watershed has been modified by urbanization, channelization, regulation or other factors affecting runoff volume, timing, or storage volume, then rainfall-runoff may be more applicable.

Floodplain revisions require the following hydraulic models:

- Duplicate Effective - Copy of the hydraulic analysis used in the effective FIS.
- Corrected Effective - Corrects errors in duplicate effective or adds detailed data.
- Existing Conditions - Reflects modifications in the floodplain since effective date.
- Revised Conditions - Includes proposed or completed project.

Hydraulic modeling is sometimes as simple as replacing an existing structure, but often it requires more complex analysis, including development of alternative designs.

Legal Issues

Some communities have adopted stricter standards than required in the NFIP. Part of the reason is that courts have commonly held governments liable for increasing flood and erosion damages on private property by changing natural drainage patterns and by increasing the location and rates of runoff due to drainage projects. Courts have often held governmental units liable for inadequately maintaining or operating culverts, bridge crossings, and channelization projects. Courts have held government units liable under a variety of legal theories including riparian rights, nuisance, trespass, negligence, strict liability, and "taking" private property without payment of just compensation. **HHR** has provided expert witness on drainage-related issues and pre-litigation design as result of complaint. As such, we are aware of the implications of drainage designs and the potential effect on properties. Compliance with NFIP regulations does not insulate government from pleas for legal remedy.

OUR PEOPLE

At **HHR**, we believe our staff is second to none. Our employees are selected based on their exceptional qualifications in our areas of expertise. We have engineers, technicians, and administrative staff that work together to meet the needs of our clients.

Wayne E. Fowler, P.E., CFM

Task Leader

B.S. Engineering, Auburn University, 1983

Post-graduate studies, Auburn University, 1984

Mr. Fowler is a registered professional engineer in Georgia, Texas, North Carolina, and Alabama. He has experience in a variety of public and private sector civil engineering projects, particularly in hydrology and hydraulics analysis and design. He has managed roadway, drainage, floodplain, utility, and land development projects. He has served as a County Engineer and Floodplain Administrator. In 2001, he founded a consulting firm that later merged with **H & H Resources, Inc.** Prior employment experience includes USDA-NRCS; engineering consulting firms in TX, GA, and AL; and a 2-yr international assignment in water resource development.

Mr. Fowler is especially qualified for projects that have National Flood Insurance Program (NFIP) implications, having prepared over 80 Conditional Letter of Map Revision (CLOMR) and LOMR applications, No-Rise certifications, and other NFIP- or FEMA-related submittals in Texas, Georgia, and North Carolina. He has assisted with countywide floodplain mapping and floodplain map modernization projects. He has extensive experience in watershed hydrology, floodplain analysis, bridge, floodway, and encroachment modeling, coordination with FEMA, and floodplain/floodway delineation.

Mr. Fowler has completed the course “E273-Managing Floodplain Development through the National Flood Insurance Program” provided at FEMA’s Emergency Management Institute in Emmitsburg, MD. He has served as a county Floodplain Administrator. He has a working relationship with the FEMA staff in Region VI (Texas) and Region IV (Georgia, North Carolina), as well as state floodplain coordinators.

He has provided engineering for water resources projects including, bridge hydraulics and scour analysis, municipal and transportation storm sewers, pump stations, detention facilities, pavement drainage, and erosion control. Software experience includes HEC-1, HEC-HMS, SWFHVD, HEC-2, HEC-RAS, HY-8, WSP2, PeakFQ, XP-SWMM.

Mr. Fowler is a member of the American Society of Civil Engineers (ASCE), Association of State Floodplain Managers (ASFPM), and Georgia Association of Floodplain Management (GAFM). He is an instructor in Georgia’s Erosion Control Certification Program.

Eric R. Friedrich, P.E., CFM

Senior Project Manager

B.S. Civil Engineering, University of Texas, 1983

Mr. Friedrich's NFIP experience consists primarily of ensuring that transportation projects are in compliance with floodplain regulations (CLOMR, LOMR, No Rise). He has extensive experience in preliminary engineering and PS&E development for highway and bridge projects, particularly hydrology and hydraulics analysis and design. He has managed projects for roadway, bridge and drainage design. In 2001 he founded **H & H Resources, Inc.** His prior experience includes 11 years with the TxDOT Bridge Division Hydraulics Section and the Fort Worth District.

He has provided drainage studies, culvert, bridge, storm sewer, channel hydraulics, detention ponds, erosion control, bridge scour, pump station design, and floodplain/floodway coordination with FEMA. Modeling expertise includes THYSYS Culvert and WinStorm; HEC-1, HEC-HMS, HEC-2, HEC-RAS; SCS TR-20, WSP-2, USGS PeakFQ, Geopak Drainage and EPA SWMM. Mr. Friedrich is an instructor under contract with University of Texas at Arlington teaching hydrology and hydraulics to TxDOT personnel.

Mr. Friedrich has been involved in the development of the following technical publications, standards development, and policy-generation:

- TxDOT Procedures for Coordinating Floodplain Encroachments with FEMA, 1984
- TxDOT Bridge Division Hydraulic Manual 3rd Edition, 1985
- AASHTO Task Force on Hydrology and Hydraulics, 1985 – 1990
- TxDOT IH 10 Katy Freeway Reconstruction Program, Drainage Design Criteria, 2001-05
- TxDOT US 290 / Hempstead Corridor Program Management, Drainage Design Criteria, 2006-09

Mr. Friedrich is a member of the American Society of Civil Engineers (ASCE), and the Texas Floodplain Management Association (TFMA).

Cynthia R. Carle, P.E., CFM

Project Manager

B.S. Civil Engineering, Texas A&M University-Kingsville, 1998

Ms. Carle manages the Stafford, TX branch office. Her primary area of expertise is surface water hydrology and hydraulics. Her NFIP experience consists primarily of ensuring that transportation projects are in compliance with floodplain regulations (CLOMR, LOMR, No Rise). She has served as Project Manager and Engineer on multiple transportation drainage projects. Her project experience includes storm sewer improvements, floodplain studies, drainage and storm water management, bridge and culvert hydraulic analysis, hydrologic and hydraulic computer modeling, drainage mitigation analysis, and scour analysis.

Ms. Carle has computer modeling experience using models developed by the U.S. Army Corps of Engineers including HEC-1, HEC-2, HEC-HMS, HEC-RAS; the Soil Conservation Service including TR-20, TR-55 and WSP2; the Texas Department of Transportation including CULVERT, WINSTORM, THYSYS RUNOFF and, THYSYS PUMP; and the Environmental Protection Agency (EPA) Stormwater Management

Model (SWMM). Ms. Carle is a member of the Texas Floodplain Management Association (TFMA).

Mike L. Talley, P.E., CFM

Project Manager

B.S. Civil Engineering, Georgia Institute of Technology, 1998

Mr. Talley manages the Albany, GA branch office. His NFIP experience consists of floodplain mapping, BFE determinations, Flood Hazard Mitigation Planning, plan review, ensuring that transportation projects are in compliance with floodplain regulations (CLOMR, LOMR, No Rise). He has worked on a wide range of engineering projects, including drainage, water supply, sanitary sewer, and transportation. His drainage engineering experience includes storm sewer improvements, floodplain studies, storm water management, and third party review of reports/designs. Project types include commercial, residential, transportation (road and rail), and municipal (water and sewer design). He has participated in developing city policies and standards. Previous employment includes: Norfolk Southern Railroad in Atlanta, Georgia; Stevenson & Palmer Engineering, in Albany, Georgia; and the City of Albany Georgia.

Mr. Talley is a member of the Georgia Association of Floodplain Management. He has recently completed continuing education in NPDES Phase II, XP-SWMM, Erosion and Sediment Control Design, and Transportation Safety Audits. He has experience with HEC-2, HEC-RAS, GEO-RAS, HEC-HMS, XP-SWMM, GIS (Arcmap, Spatial Analyst, 3D analyst), Geopak. Mr. Talley is a member of the Georgia Association of Floodplain Management (GAFM).

Jaime Benoliel, P.E., CFM

Project Engineer

B.S. Civil Engineering, University of Houston, 2001

Ms. Benoliel specializes in hydrology and hydraulics. She was previously employed with the Harris County Flood Control District. She has served as Project Engineer on multiple flood study and transportation drainage projects. Her project experience includes storm sewer improvements, bridge, culvert, detention pond sizing, hydrologic and hydraulic computer modeling, and drainage mitigation analysis.

Ms. Benoliel has experience with HEC-1, HEC-2, HEC-RAS (steady and unsteady), GEO-RAS, HEC-HMS; UNET, Geopak Drainage, THYSYS CULVERT and WINSTORM, XP-SWMM, and GIS (Arcmap, Spatial Analyst, 3D analyst), and the Environmental Protection Agency (EPA) Stormwater Management Model (SWMM).

Ms. Benoliel is a member of the Texas Floodplain Management Association (TFMA), and has been an instructor in drainage engineering courses.

Ms. Benoliel co-authored the following papers with Dr. Yu-Chun Su:

- Sediment Transport Modeling of Dredged Disposal Materials Near Sabine Pass.” Coastal Texas 2020 Technical Erosion Conference 2005, Houston, Texas, September 14-16, 2005.
- “Modeling of Flood Control Channels Using SMS/RMA2.” TFMA 17th Annual Texas Flood Conference, Fort Worth, Texas, 2004.

OUR PROJECTS

Our floodplain engineering projects vary in size from BFE determinations for subdivisions, to CLOMR/LOMR submittals based on complex revisions to hydrology and floodway. In the last 10 years we have completed almost 100 NFIP-related engineering projects in Georgia, North Carolina and Texas. We have also served as consultants providing leadership and guidance through floodplain ordinance review, multi-jurisdictional hazard mitigation planning, and other floodplain management issues. As the following descriptions show, **HHR** has recent and ongoing projects that have required a detailed knowledge of NFIP, floodplain mapping procedures, and various state and federal program compliance.

- **Legacy Park Circle, Kennesaw, GA (2010)**; Hydrology/hydraulics design, NFIP compliance, scour analysis, complete PS&E for replacement of bridge-class culvert with ConSpan® precast bridge. Project team leader and prime consultant. Coordination with local utilities. Project funded by FEMA for City of Kennesaw. Design software: HEC-1, HEC-RAS, Microstation.
- **Beck Street Extension Project, Bryan, TX (2005-2009)**; Hydrology/hydraulics design for storm sewer improvements, storm water management. Floodplain studies (CLOMR, LOMR requests) including revisions to hydrology, detention ponds, new road crossings. PS&E included four new location bridge-class culverts and two detention basins. Assisted with public notifications. Coordinated with City FPA, FEMA. Design Software: HEC-1, HEC-2, HEC-RAS, Geopak Site.
- **Countywide Floodplain Mapping, Henry County, GA (2008-2009)**; Drainage sub-consultant. Future floodplain mapping required by Metropolitan North Georgia Water Planning District. Tasks include: converting HEC-2 models to HEC-RAS, Limited Detailed hydraulic analysis to map existing and proposed floodplains. Design software: HEC-RAS, HEC-GeoRAS, ArcMap, Microstation.
- **College Street at San Gabriel River, Georgetown, TX (2008-2009)**; Bridge hydrology/ hydraulics design, scour analysis, floodplain study, floodway revisions, CLOMR request, storm sewer improvements, culvert design, Water Pollution Abatement Plan (WPAP). Coordinated with City FPA, FEMA's review contractor. Design software: HEC-HMS, WSP2, HEC-RAS, Microstation, Geopak Drainage, Geopak Site.
- **Sabine Mining Company Haul Road at Sabine River, Rusk County, TX; (2008-2010)**; Watershed study for 3500 sm drainage area, hydraulic analysis of multiple alternatives for road crossing, impact analysis of crossings, sediment ponds on floodplain. Coordinated with County FPA, Railroad Commission of Texas (RCT). Design software: USGS PeakFQ, HEC-RAS, Microstation.

- **Multi-Jurisdictional Hazard Mitigation Plan Update, Lee County, GA (2009-2010);** Assist in setting up Planning Committees, organize and schedule Committee meetings, review/update potential hazards to determine updated potential risks. Work with County to determine goals, objectives and action steps to address identified hazards. Assist County with public hearings and addressing public comments. Assist with data input into GMIS system. Prepare and present draft and final reports/documents to all municipalities and GEMA.
- **Flood Mitigation Assistance Plan, Lee County, GA (2008-2009);** Assist County in developing mitigation strategies to reduce/eliminate losses associated with Severe Repetitive Loss Properties. Prepared written document for approval by FEMA. Coordinated with County FPA, GEMA and FEMA.
- **North Mitchell County Elementary School, Mitchell County, GA (2009);** Base flood elevation determination for federally funded school site. Hydrologic and hydraulic analysis of a Zone A flood zone to determine existing and proposed base flood elevations. Included 6 bridges, split flows. Coordinated with County, Architect, General Engineering Consultant. Design software: HEC-HMS, HEC-GeoRAS, ArcMap, Microstation.
- **Precinct Line Rd. at Walker Branch, Fort Worth, TX (2006-08);** Hydrology and hydraulics design of bridge replacement and approach embankment in floodplain. Watershed analysis, channel improvements and lining, impact/mitigation analysis, floodplain study (CLOMR request). Coordinated with City FPA, FEMA's review contractor. Design software: SWFHVD, HEC-2, HEC-RAS, Microstation, Geopak Site.
- **Crisp County Courthouse Flood Study, Crisp County, GA (2008);** Base flood elevation determination. Hydrologic and hydraulic analysis of a Zone A flood zone to determine existing and proposed base flood elevations. Coordination with County, City FPA, architect. Design software: HEC-RAS, Microstation.
- **DFIRM Map Modernization, Union County, GA (2005 – 2007);** Assisted county with administration of map modernization program, including base mapping and copyrighting of GIS data, additional modeling using limited detail study methods, floodplain and floodway delineation, review of existing floodplain and floodway models, coordination with other mapping contractors and FEMA, assistance with public comment, and quality review of FIS and dFIRMs.
- **Marsh landing, Albany, GA (2007);** third party review of no rise submittal. Hydrologic and hydraulic analysis of floodway impact due to proposed residential development.
- **IH 35 at Lake Creek, Round Rock, TX (2007);** Hydrology and hydraulics design of bridge modifications to IH 35 frontage road and ramp bridge. Updates to existing FEMA hydrology and hydraulics modeling, analysis of bridge and channel improvements to achieve no impact to floodplain/floodway elevations. Coordination with City FPA, TxDOT. Design software: TR-20, WSP2, HEC-RAS, Microstation.

- **Jal Draw at SH 349 Channel Realignment, Ector County, TX (2007);** Design of channel improvement and realignment for Jal Draw. Hydrologic and hydraulic modeling for channelization, bridge, culvert crossings for new roadway. Drainage study and report, and floodplain study (CLOMR request). Complex coordination with City FPA, FEMA due to (1) floodway encroachments on the FIRM not matching effective model; (2) Unmapped, but revised hydrology from a previous LOMR; (3) Structures omitted from the effective model; and (4) Revised floodway encroachments. The revised conditions model included channelization, a new bridge crossing, a new culvert crossing (skewed), replacement culverts, and revised floodway encroachments.
- **Hog Pen Ditch, Albany, GA (2005-2006);** Hydrologic and hydraulic analysis of proposed improvements to levee to alleviate interior flooding along Flint River. Prepared CLOMR and LOMR documentation. Coordinated with US Army Corps of Engineers, City FPA, GDOT, and FEMA.
- **SH 105 at E. Fork San Jacinto River, Liberty County, TX (2005-06);** Hydrology and hydraulics design of bridge and channelization for new location of major river crossing. CLOMR request. Coordinated with TxDOT, FEMA. Design software: TR-20, HEC-RAS.
- **Seaboard Branch at MacArthur Drive, Mitchell County, GA (2001-2005);** Hydrology, hydraulic design, floodplain analysis, CLOMR and LOMR documentation for improved road crossing. Funded by the Georgia Emergency Management Agency (GEMA) under the Hazard Mitigation Grant Program (HMGP).

OUR REFERENCES

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