**Daniel Hales, P.E.**

**Senior Water Resources Engineer**

*Drainage/Water Resources/Hydraulic/Hydrology Engineer/Civil 3D*

Salt Lake City, UT

Mr. Hales is a member independent contractor working under the name of HCF Corporation. in Salt Lake City. His experience includes responsibility for drainage studies, flood mapping and storm drain design. He has fifteen plus years of experience in both the private and public sectors. His drainage design skills include estimation of rainfall, conveyance routing, and facility design. His domestic water design skills includes designing and maintaining infrastructure modeling to accurately portray systems dynamic/static pressure, velocity, flowrate, headloss and other parameters for various scenarios. He also has experience in utility design. Mr. Hales has experience in managing several people on large projects.

## Areas of Expertise

Business Development, Project Management, Drainage Studies, Flood Mapping, Storm Drain Design

Education

University of Nevada, Las Vegas, B.S. Civil and Environmental Engineering, 2004

**Registration/Certification**

2009/PE/Utah/7454956-2202

Computer Experience

HEC-HMS, Flowmaster, WSPG, HELE, AES, HEC-RAS, HEC-1, HY8, WaterCAD, SewerCAD

Arcview (CS locate application)

 Civild, HydroCAD, AutoCAD R14,’02,’04, ‘07 with Land Development, civil3D

Employment History

##### **HCF Corporation July 2016-Present**

* Independent contracting
* Owner
* Senior Civil Engineer

##### **Forsgren Associates, Salt Lake City, Utah August 2015-May 2016**

* Business Development
* Project Manager
* Senior Civil Engineer

##### **AECOM/**[**URS Corporation**](https://www.linkedin.com/company/4284?trk=prof-exp-company-name), Salt Lake City, UT – February 2009 to August, 2015

#### Senior Water Resources [Engineer](https://www.linkedin.com/vsearch/p?title=Engineer&trk=prof-exp-title)

* Project Management
* Civil Infrastructure for Salt Lake City Airport
* Budget and scope negotiation
* Review plans
* FEMA mapping such as CLOMR, LOMR, and zone mapping.
* Scour and depth of cover analysis for pipelines.
* Pipeline design including high pressure for water

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##### [**City of Springville**](https://www.linkedin.com/vsearch/p?company=City+of+Springville&trk=prof-exp-company-name), **UT - February 2008 – December, 2008**

##### **Civil Engineer**

##### Manage CIP projects, plan check and other compliance issues.

##### [**Hall & Foreman, Inc.**](https://www.linkedin.com/company/55430?trk=prof-exp-company-name), Temecula, CA – August 2007 – January, 2008

**Staff Engineer**

* Drainage studies and Flood Mapping
* Client relations/meeting demands
* Street & Storm Drain Design
* Full improvement plan design (commercial/residential)

##### [**RBF Consulting, a Company of Michael Baker Corporation**](https://www.linkedin.com/company/14432?trk=prof-exp-company-name), Temecula, CA – March 2005 – July 2007

**Assistant Engineer**

* Drainage studies
* Flood Mapping
* Grading
* Street & Storm Drain Design
* Full improvement plan design (commercial/residential)
* Water Quality Management Plan

##### [**Slater Hanifan Group**](https://www.linkedin.com/company/108306?trk=prof-exp-company-name), Las Vegas, NV – April 2004 – March 2005

**Graduate Engineer**

* Master plan budgeting
* Coordination with client for utility locations, street alignments, and amenities for planned communities
* Tentative maps and improvement design
* Coordination with governing agencies on all aspects of land improvement design

##### **[Taney Engineering](https://www.linkedin.com/company/2398780?trk=prof-exp-company-name),** Las Vegas, NV – March 2001 – April 2004

**Student Intern**

* Water hydraulic analyses for civil projects
* Research for land development projects for all pertinent information
* Plot plans, lot fits, grading plans, aspects of hydrology, plan and profile of streets

# Sample Project Experience

**Project Manager, Chevron Pipe Line, Utah**

Replace in kind crude pipeline. Mr. Hales was responsible for SWPPP report, and permitting necessary for the re-route. Mr. Hales met with and communicated on a regular basis with the client and project team.

**Project Manager, Holly Energy Partners, Utah**

Mr. Hales was responsible for a project that involved detailed calculations regarding the track crossing. He was responsible for ensuring that all applicable codes are met. He met in meetings with clients and other project personnel representing the railroad.

**Project Manager, Utilities Mountain View Corridor, Utah:** Mr. Hales is the manager for utilities. He also performed Hydrology Analysis for project and off-site drainage. This analysis included mitigation of onsite and off-site hydrologic and facility design. The Mountain View Corridor project is a state transportation freeway system that is estimated in the billions.

**Calcite Industrial, Utah County:** This project was a well site that Mr. Hales performed testing operations on to measure drawdown, running routine tests to check water quality extracted from the well.

**Hydrology/Hydraulics Engineer, Western Zirconium, Salt Lake City and Ogden, Utah:** Mr. Hales performed hydrology analysis using Hydro CAD® including defining ridgelines, developing runoff coefficients, soil permeability, rainfall data and other input parameters. Mr. Hales also designed conveyance channel structure and outlet pond of calculated flow. The conveyance channel was proposed as a 5 foot deep by 8 foot wide concreted lined trapezoidal channel with 2:1 side slopes. The pond functioned as a series of detention basins in order to allow the outlet elevation and capacity to be sufficient.

**CAD Hydrology Analyst, Andrews Air Force Base, Maryland:** Mr. Hales designed and portrayed the grading of conveyance channel and baffle design using AutoCAD’s Civil 3D program. In addition, Mr. Hales portrayed on plans the 18” temporary outlet pipe from basin along with the appropriate layout daylight for pipe and channel on the downstream side.

**Staff Engineer, Clay County-FEMA**, **Missouri:** Mr. Hales assisted in the development of a 100-yr flood plain using HEC-RAS based on existing bridge, channel, topography, and other input data.

**Project Engineer, Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Map (DFIRM) Projects, Utah:** Using the latest software available, Mr. Hales performed flood study tasks in support of the Department of Homeland Security’s Map Modernization for Clay County, Price, and Spring Glenn, Utah.

**Project Engineer, Water Sampling, Private-Sector Client, Utah:** Mr. Hales conducted water test sampling for a private-sector client. This project was a sampling hole for a future domestic potable water use. Various potential contaminants were analyzed.

**Project Engineer, Western Zirconium, Utah:** Mr. Hales performed hydrology and hydraulics tasks including pond design using AutoCAD and various other computer software to model existing and proposed improvements.

**Engineer, City Of Springville, Springville, Utah:** As an engineer for the City of Springville, Mr. Hales was responsible for reviewing plans, conducting pre-construction meetings, and enforcing city codes and regulations. He held bi-weekly design review committee meetings with engineering consultants and developers to discuss engineering corrections and provide comments. Mr. Hales coordinated with the City Attorney and City Manager on engineering-related issues to develop cost-effective solutions. He also developed contract documents for City Capital Improvement Projects.

**Staff Engineer, Hall & Foreman, Inc., Temecula, California:** Mr. Hales performed drainage studies and flood mapping, grading, street and storm drain design, and commercial and residential full improvement plan design. He maintained a high-level of client service and consistently met project demands.

**Assistant Engineer, RBF Consulting, Inc., Temecula, California:** Mr. Hales was responsible for drainage studies flood mapping. He was in charge of analyzing hydrology and hydrologic conditions. He also performed other engineering operations such as grading, street and storm drain design, commercial and residential full improvement plan design.

**Graduate Engineer/Student Intern, Slater-Hanifan Group, Inc., Las Vegas, Nevada:** Mr. Hales assisted with master plan budgeting and tentative maps and improvement design. He also coordinated with clients regarding utility locations, street alignments, and amenities for a master planned community and coordinated with governing agencies on all aspects of land improvement design.

**Student Intern, Taney Engineering, Inc., Las Vegas, Nevada:** Mr. Hales performed water hydraulic analyses for civil projects; researched land development projects for all pertinent information; and assisted with plot plans, lot fits, grading plans, aspects of hydrology, and plan and profile of streets.