

# Curriculum Vitae

## Michael A Stanka PE, SWRS

Stanka Consulting, LTD  
3032 Silver Sage Drive, Suite 101.  
Carson City, Nevada 89701

(775) 885-9283

michael@stankaconsulting.com

### WORK EXPERIENCE:

**Senior Engineer - President, Stanka Consulting, LTD:** June 2006 to Present.  
3032 Silver Sage Drive, Suite 101, Carson City, Nevada, 89701

President and Senior Engineer of Stanka Consulting, LTD, a Nevada Professional Engineering Corporation that specializes exclusively on projects relating to State of Nevada Water Rights. Clients include large and small municipalities, ranchers, farmers, and individual water right owners. Scope of projects includes research, preparation, and submittal to the Nevada State Engineer of the following: Reports of Conveyance, Proofs of Vested Claim Applications, New Appropriations, Change Applications, Completion of Works, and Proofs of Beneficial Use. Additionally, Stanka Consulting, LTD performs the following: on-site surveys and mapping to produce accompanying maps to water right applications; representation of municipalities as a technical consultant for negotiations, comprehensive analysis, preparation of reports regarding available water rights in complete basins and individual ranches; production of AutoCAD and GIS based maps depicting place of use of irrigation water rights; review of technical reports in support of hearings before the Nevada State Engineer; development, review and operations of surface water and groundwater models; development of Access databases for municipal tracking of water rights; and the development of databases to track exhibits in support of hearings before the Nevada State Engineer.

#### Summary of Significant Projects completed:

- Researched approximately 500 Water Rights Deeds relating to surface water of Claim 3 of the Orr Ditch Decree transferred to the City of Fernley. Developed Access database to track deed information, hyperlink copies of all deeds, and provide status of change applications.
- Researched approximately 20,000 acre feet of Claim 3 Orr Ditch water rights located within 15 Sections (640 acres per section) of the City of Fernley Municipal Area. Original Farm Contracts were analyzed to determine original location of the Farm Contract Water Rights. Determined the current place of use of water rights owned by the City of Fernley, transferred to the AB-380 program, or subject to State of Nevada Change Applications. All water rights were mapped using AutoCAD and were also incorporated into a Geographic Information System database (ArcGIS) which includes linked attributes. Completed report summarizing the process and procedures used in the development of the mapping databases.

- Provided Expert Testimony before the Office of the Nevada State Engineer relating to vested claims, water title, and quantification of water rights in the matter of *the Relative Rights in and to the Water of Jersey Hot Spring et al.*
- Provided Expert Testimony in District Court on a review of water rights report for a stream adjudication [Mott Creek] near Genoa, NV. This report included historical water right development and historical use, field investigation, and various mapping efforts.
- Technical Representative to the City of Fernley and participating member in the City of Fernley / Pyramid Lake Paiute Tribe negotiations regarding Claim 3 - Orr Ditch surface water rights. Additionally, participating member in the City of Fernley / Bureau of Reclamation negotiations regarding Claim 3 - Orr Ditch surface water rights.
- Technical Advisor to the City of Fernley in support of administrative hearings before the Nevada State Engineer. Review and evaluation of Protestants technical exhibits. Evaluation and interpretation of aerial photography to determine if select water rights are subject to abandonment / forfeiture. Preparation of City of Fernley technical exhibits. Technical Representative for the City of Fernley for settlement negotiations between Protestants and City of Fernley.
- Prepared and submitted to the Nevada State Engineer a series of twenty "upstream" primary storage applications for the City of Fernley. Applications included over 4,700 acre-feet of City of Fernley Permitted Claim 3 - Orr Ditch water rights. Purpose was to change the manner of use to storage in upstream reservoirs as authorized through the Truckee River Operating Agreement. For each of the twenty storage applications, three secondary applications were prepared and submitted to the Nevada State Engineer to change the manner of use to Municipal and Wildlife. The existing places of use, upstream storage reservoirs, Truckee River in-stream flow locations and points of diversion were mapped and filed with the applications.
- Prepared and submitted to the Nevada State Engineer thirty four Change Applications and accompanying maps to change the manner of use of City of Fernley Claim 3 - Orr Ditch water rights from irrigation to municipal and place of use from irrigation lands to the entire Fernley Municipal area. These applications included over 4,700 acre-feet of City of Fernley dedicated water rights. The Water Rights Deed for each water right was obtained and evaluated and then the locations of the water rights were mapped with reference to the Lyon County APN database using an AutoCAD mapping system referenced to NAD 83. Reviewed current water rights transferred to the AB-380 program, water rights involved in previous change applications before the Nevada State Engineer, and the location of the original farm contracts through the use of existing files, historical maps, and historic aerial photographs.
- Prepared or reviewed all Water Right Dedication Packages submitted to the City of Fernley. The City of Fernley, through their policy for the dedication of water rights, receives water rights in exchange for future will-serve commitments. Ownership of the water rights are confirmed through review of TCID records and deeds, dedication agreements, change applications, change application maps, and a Water Rights Opinion Report. The Water Rights Opinion Report is based on review of all documents as well

as historical maps and aerial photographs. For dedications which involve a third party water rights engineering firm, their submittal is reviewed to ensure consistency with City of Fernley requirements.

- Researched all existing water rights, which include over 500 individual files, within the Snake Valley Basin. Completed a summary of existing water rights, a supplemental analysis of irrigation water rights, completed mapping of all point of diversions and place of use of surface water irrigation rights within the Snake Valley Basin. Analysis was based on site visits, review of all applicable files and maps located at the State Engineers Office, and review of aerial photographs and historical maps.
- Researched nine applications to appropriate water in the Snake Valley Basin in order to determine proposed point of diversions. Re-calculated all Point of Diversions locations and re-surveyed those locations in the field using original change application, change application maps, historical survey maps and aerial photographs.
- Researched all existing surface water and ground water rights for select ranches owned by the Southern Nevada Water Authority located in the Spring Valley Basin. Historical survey maps, aerial photographs, and Nevada State Engineer files were reviewed and site surveys conducted to determine location of existing water rights and current irrigation practices.
- Prepared and submitted to the Nevada State Engineer applications for the new appropriation of water for Glenco Springs (stockwater), and Shoshone Ponds (stockwater and wildlife), Harbecke Ranch (irrigation) and change applications at Harbecke Ranch (irrigation). Researched files at the Nevada State Engineer's office, historical and current surveys, aerial photographs and completed on-site surveys to determine points of diversion and places of use. Completed maps to accompanying applications to show location of points of diversion and places of use.
- Reviewed technical exhibits for the Spring Valley and DDC (Delmar, Dry, and Cave) hearings before the Nevada State Engineer. Technical documents included reports of existing water rights, supplemental analysis of those rights, and ground water modeling.
- Prepared and submitted over sixty applications to appropriate water within Buffalo, Jersey and Dixie Valley for the Joe Saval Company. Applications were for stockwater and irrigation use. Points of diversion and places of use were mapped based on review of Nevada State Engineer files, review of historical and current surveys, and on-site field surveys. Fifty-six applications for vested claims were prepared and submitted for stockwater use. Accompanying maps showing the points of diversion and places of use pertaining to the applications to appropriate and vested claims were prepared and filed.
- Prepared and submitted to the Nevada State Engineer 15 change applications to change the place of use of irrigation ground water rights within Stone Cabin Basin. Point of diversion and places of use were mapped based on review of Nevada State Engineer files, review of historical and current surveys, and completion of on-site field surveys. Reports of Conveyance and Proofs of Completion were prepared and submitted to the Nevada State Engineer. Surveys were completed and maps prepared for future filing of Proofs of Beneficial Use.

- Prepared 31 applications to appropriate water and 6 change applications in support of the Ruby Natural Gas Pipeline project. The Ruby Pipeline will transport natural gas from its starting location in Wyoming, through Utah and Nevada, and terminate in Oregon. The applications to appropriate and change applications are for pipeline testing and dust suppression use. Mapping of the points of diversions and places of use (entire 350 miles within Nevada) were completed based on review of Nevada State Engineer files, historical and current survey maps, and aerial photographs.
- Provided expert testimony in District Court (Minden) on a review of water rights and rotation schedule for a stream adjudication (Sheridan Creek). This report included an evaluation of the historical water right development and historical use, field investigation, evaluation of the current rotation schedule and various mapping efforts.
- Preparation and completion of the City of Fernley Water Supply Supplemental Analysis. The primary purpose of this report was to provide a comprehensive analysis of current and future water rights and infrastructure capacity and to estimate the benefits of storage options available to the City of Fernley.
- Provided expert testimony in State Engineer Hearing for SNWA inter-basin transfer of water from Spring, Delmar, Dry, Cave Valleys. Testimony and accompany comprehensive report related to the basins inventory of all surface water and ground water rights within the basins.
- Prepared and submitted to the Nevada Division of Water Resources a comprehensive and complete Aquifer Storage and Recovery permit package for the City of Fernley. The permit package included surface water / ground water models, estimations of recovery rates, accounting plans and monitoring plans.

**Assistance Deputy Inspector General [Special Operations Division], Special Inspector General for Iraq Reconstruction - Senior Engineer:** March 2005 to June 2006.  
Office of the Special Inspection General, Baghdad Iraq.

Assistance Deputy to the Special Inspector General for Iraq Reconstruction - Senior Engineer responsible for the initial development and deployment in Iraq of the Special Operations Branch. Initiated and deployed four inspection teams (including my own team) which included a Professional Engineer and Auditor whose duties were to assess and report on construction projects. Technical assessments included review of contracts, design, quality assurance / quality control. Projects included construction / rehabilitation of police stations, fire stations, railway infrastructure, airports, pipelines, canals, hospitals, water treatment facilities, wastewater treatment facilities, roadways, and training facilities. Site inspections were conducted to interview key construction personnel and to determine if construction of projects were consistent with designs and contract specifications. For projects that were not conducive to perform on-site inspections, aerial photography, satellite imaging, and testimony and photographs obtained using local assets were analyzed to determine progress and quality of construction. Prepared comprehensive reports on each project with those reports distributed to U.S. Government entities to include Secretary of State, Assistant Secretary of Defense,

Ambassador to Iraq, and Committees and Subcommittees of the Senate and House of Representatives. Personally completed eighteen Technical Assessments with comprehensive reports and evaluated approximately 96 projects through the use of information obtained through local assets.

**Senior Engineer - Program Manager, GS-0340-14:** August 2004 to Dec 2004.  
United States Army Corps of Engineers, GRD Iraq. APO, AE 09316.

Senior Engineer / Program Manager for OMA (Operation and Maintenance, Army) work performed in the Gulf Region Division, stationed in Baghdad Iraq. Responsible for the coordination, review, and integration of the military OMA and construction program through constant coordination with the US facility planning staff of the Multi National Corps in Iraq. Developed standard methods and procedures used in managing program design and construction program execution in the Gulf Region Division. Developed the OMA Planning and Design budget for the Division. Provided Division coordination with HQUSACE to bring together program guidance and requirements through daily communication and status updates. Developed, reviewed, and/or prepared recommendations for OMA / construction project changes and requested funding for District projects. Conducted frequent site inspections and assistance visits to Districts and Area Offices throughout Iraq. Senior Engineer and Program Manager for Security and Justice Sector and Transportation and Communication Sector including fire stations, BIAP projects, schools, and courthouses.

**Environmental Engineer GS-0819-13:** March 2001 to August 2004  
NAVAIRSYSCOM HQ 3.2E; 47013 Hinkle Circle Patuxent River, Maryland 20670

Environmental Engineer responsible for ensuring NAVAIR Weapons Platforms (new design and re-designs) properly identifying and addressing environmental concerns to ensure systems were in full compliance with existing and future regulations. Delegated AIR 3.0 (Admiral Bachman) Logistics action officer for all Acquisition Environmental Product Support Team (AEPST) functions. The AEPST provides policy and guidance, as well as budgeting and resource allocation for Naval Aviation environmental concerns. The AEPST is the governing body within NAVAIR responsible for integrating, ranking and approving all Command research and development environmental needs and all environmental activities required to support the fleet and acquisition managers. NAVAIR Logistics representative for the Lead Maintenance Technology Center for the Environment - Working Integrated Product Team (LMTCE-WIPT). The LMTCE-WIPT is responsible for providing environmental solutions to aviation-related environmental, safety, and health compliance requirements by applying pollution prevention measures focusing on maintenance product and process improvements. Responsible for the management of the NAVAIR ODS program and representing NAVAIR at the ODS Steering Committee Department of Defense (DoD) level. Responsibilities included the management of the NAVAIR portion of the DoD ODS reserve, management of the NAVAIR authorized user list for ODS, determining the impact of future ODS regulations on NAVAIR operations, and minimizing the risk of future regulations through the use of new technology.

**Supervisory Environmental Engineer; GS-0819-12:** May 1999 to March 2001  
Key West Naval Air Station; Key West, Florida 33040

Supervisory Environmental Engineer responsible for all programs and projects associated with ensuring the Naval Air Station is in full compliance with all environmental rules, regulations and

guidelines. Served as Naval Air Station Environmental Director with overall environmental program management, execution, and operations responsibilities. Responsible for yearly execution of environmental budget and future projected budgets. Supervisor of project managers (twenty persons total) for the following environmental protocols: installation restoration (CERCLA RCRA), BRAC, drinking water, waste water, solid waste, recycling, pollution prevention, air emissions, lead-based paint, hazardous materials, hazardous waste, PCBs, spill response, storm water, underground storage tanks, and petroleum, oil, and lubricants.

**Supervisory Environmental Engineer; GS-0819-13:** December 1996 to April 1999  
US Naval Station Panama Canal; Unit 6263 FPO AA 34061

Implemented all environmental drawdown requirements in accordance with Panama Canal Treaty 1977 for transfer of all U.S. Navy property located within the Republic of Panama (transferred 30 April 1999). Negotiated environmental issues with Government of Panama, United States State Department, and Southern Command during property transfer activities. Completed a comprehensive environmental site assessment of U.S. Naval properties. Collected and interpreted all applicable historic and current documentation relating to environmental concerns, researched and interpreted aerial photographs to determine location of potential contaminated sites, and conducted interviews with personnel with knowledge of past operations. Completed transfer of 800-acre fuel tank farm (40 million gallon capacity), port facilities, and associated housing without additional remediation maps based on risk assessment protocols.

**Environmental Engineer; GS-0819-11** January 1996 to December 1996  
Department of the Air Force; 24 Civil Engineering Squadron APO AA 34001-1000

Responsible for management of all solid waste and recycling activities at Howard AFB (Republic of Panama). Designed and implemented a comprehensive recycling program by leveraging limited resources and personnel, which resulted in a lower cost, highly efficient and successful program. Designed and oversaw construction of the Howard AFB Recycling Center. Partnered with local recycling companies in a profit sharing agreement to operate the recycling center and arrange sale of recycled commodities. Monitored the solid waste collection and disposal to ensure full compliance with the Final Governing Standards and Department of Defense regulations and guidelines. Performed environmental assessments at remote detachments in South America in support of counter drug operations. Ensured Detachments were in full compliance with all applicable environmental regulations.

**Environmental Engineer; GS-0819-12:** 4 August 1992 to January 1996  
Department of the Air Force; 611 Civil Engineering Squadron, Elmendorf AFB, Alaska 99506

Remedial Project Manager (RPM) for all Installation Restoration Program (IRP) activities at Shemya Air Station and Pillar Mountain, remote Alaska Air Force Installations. Job duties as follows: assess environmental condition of Air Force installations to determine restoration requirements through review of historical documents, review and interpretation of aerial photographs, review of historic and current maps, and interviews with site personnel; direct development of investigations and remedial actions; review treatability studies and remedial action engineering designs; perform engineering evaluations for proposed cleanup actions; write budget justification documents and develop engineering cost estimates in order to draft investigation and cleanup contracts; manage contracts to insure work is properly performed to required standards at the lowest possible cost; negotiate strategies and cleanup standards with

the Alaska Department of Environmental Conservation and the Environmental Protection Agency (EPA); review all reports generated by the investigation / remediation contractors and recommend treatment methods to be utilized to cleanup contaminated soils, surface water and groundwater; provide technical oversight and assistance for travel and supply logistics to remote sites throughout Alaska. Responsibilities included programming and execution of a \$5 to \$7 million per year environmental restoration program. Sites included POL, PCB, dioxin, TCE, and munitions related contamination. Compliance related activities included: removal and investigation of above ground storage tanks; removal and investigation of underground storage tanks; removal and investigation of pipelines; RCRA inspections; E-camp inspections; and coordination of IRP/compliance overlaps.

### **EDUCATION:**

Lynnbrook High School, San Jose, California - 1979

University of Alaska, Anchorage, Anchorage Alaska - B.S. Civil Engineering, 1992

### **U.S. MILITARY SERVICE INFORMATION:**

Branch and Period of Active Duty Service: 07-79 to 10-82, U.S. Air Force

### **PROFESSIONAL LICENSES AND CERTIFICATES:**

Professional Engineer License, State of Florida # 18313

Professional Engineer License, State of Nevada # 61851

Professional Engineer License, State of California # 83721

State Water-Right Surveyor, State of Nevada # 1182

### **PERFORMANCE RATINGS, AWARDS, HONORS, AND RECOGNITIONS:**

Notable Achievement Award - May 1996

Notable Achievement Award - September 1996

Civilian of the Quarter (supervisory) - December 1997

Civilian Meritorious Service Medal - April 1999 Panama

Civilian Achievement Medal – September 2004 Iraq

Civilian Superior Service Medal – December 2004 Iraq

Secretary of Defense Medal for the Global War on Terrorism – September 2006 Iraq

### **PROFESSIONAL TRAINING:**

HAZHAZWOPPER (40 Hr) - 1992

HAZWOPPER Refresher (8 Hr) - 1994, 1995, 1996, 2000

Cost Estimating For Environmental Projects (32 Hr) - 1993

Defense Priority Model (24 Hr) - 1994

Risk Assessment for Environmental Professionals (40 Hr) - 1994

Soil Remediation and Treatment Technologies (32 Hr) - 1994

Installation Restoration Program Management (40 Hr) - 1995

Composting Conference (40 Hr) - 1996

Pollution Prevention Conference (40 Hr) - 1996  
Air Permitting Conference (40 Hr) - 1997  
EPR Program Training (16 Hr) - 1997  
High Risk / Low Trust Communication Training (24 Hr) - 1998  
Incident Commander Training (32 Hr) - 2000  
Fundamentals of Systems Acquisition Management (80 Hr) - 2001  
Acquisition Logistics Fundamentals (80 Hr) - 2001  
Intermediate Systems Acquisition (80 Hr) - 2001  
Intermediate Acquisition Logistics (40 Hr) - 2001  
Reliability and Maintainability (40 Hr) - 2001  
Configuration Management (40 Hr) -2002  
Advanced Acquisition Logistics (80 Hr) -2002  
Riverware Modeling - Intro - 2008  
Riverware Modeling - Advanced -2008

#### **TECHNICAL REPORTS COMPLETED:**

*Analysis of Technical Issues in the Matter of the Relative Rights in and to the Water of Jersey Hot Spring et al, Prepared for the Joe Saval Company,, (June 2015)*

*City of Fernley Water Supply Supplemental Storage Analysis- Prepared for City of Fernley, (January 2012)*

*Analysis of the Distribution System and the 2011 Rotation Schedule Pertaining to the Water of the North Diversion of Sheridan Creek and its Tributaries, Prepared for Mr. Jim Bentley, (Oct 2011)*

*Committed Groundwater Resources in Four Nevada Hydrographic Areas; Cave Valley, Dry Lake Valley, Delamar Valley, and Spring Valley – Prepared for Southern Nevada Water Authority, (May 2011)*

*Honker Ranch, Inc. Application No. 78369 and State Engineer Ruling 6061 Review and Analysis – Prepared for Honker Ranch, Inc., (April 2011)*

*Feasibility Study of Aquifer Storage and Recovery in the Fernley Area, NV – Prepared for the City of Fernley, (Mar 2011)*

*Truckee River Surface Water Diversion and Infrastructure Preliminary Engineering Report – Prepared for the City of Fernley, (Feb 2011)*

*Evaluation of the Final Order of Determination Addressing the Proof of Appropriation Under Vested Claim Numbers V-05314, V-06313, V-06349, V-06350, V-0635, (2009)*

*Initial Mapping Effort of Water Rights Within the City of Fernley Geographic Boundaries (2008), City of Fernley.*



*SIGIR PA-05-01: Al Wahda Water Treatment Plant (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-02: Al Wathba Water Treatment Plant (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-03: Al Nahrwan Water Supply Project (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-04: Al Sumelat Water Network (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-05: Al Hakimia Substation (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-06: Hamdan Secondary Substation (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-07: Al Kaffat Substation (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-08: Al Seraji Substation (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-09: Shatt Al Arab Substation (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-015: Police Station Al Balda - Al Faya'ad BA 057 (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-016: Hilla Maternity and Children's Hospital (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-019: Babil Railway Station Rehabilitation (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-020: Police Station - Seif Sa'ad / Aqdiya BA051 (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-21-24: Border Post, As Sul Numbered #20, #23, #29 and #37, Sulaymaniyah (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-028: Umm Qasr Water Scheme (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-048: Summary Report Ground Project Surveys for the Quarter Ended December 31, 2005 (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-049: Basrah International Airport - Terminal and Tower Renovation, Basrah (2006), Special Inspector General for Iraq Reconstruction.*

*SIGIR PA-05-050: Basrah International Airport - Air Side Supply to NAVAIDS and VISAIDS (2006)*, Special Inspector General for Iraq Reconstruction.

*SIGIR PA-05-051: Police Station - Safwan IHP 404, Basrah (2006)*, Special Inspector General for Iraq Reconstruction.

*SIGIR PA-05-052: Summary Report Ground Project Surveys for the Quarter Ended March 31, 2006 (2006)*, Special Inspector General for Iraq Reconstruction.