

Resume

Marlena R Guhlke, R.S.
Project Manager, Environmental Scientist

Education:

B.A., Environmental Quality Measurement, Central Washington University, 1974

Professional Registrations:

Registered Sanitarian: Washington State, 1975

Distinguishing Qualifications:

- Extensive experience with regulatory compliance, permitting processes, and public involvement
- Experience with NEPA/SEPA process, environmental impact statements (EIS), environmental checklists, and the Energy Facility Site Evaluation Council (EFSEC) permitting process for power projects in Washington State
- Lincoln County (Washington) Environmental Health Director for 14 years

Relevant Experience:

Ms. Guhlke is an Environmental Services Manager in CH2M HILL's Spokane Office. She has worked at CH2M HILL as a project manager and task leader on a variety of projects and has extensive experience with regulatory compliance, permitting processes, environmental evaluations, and public involvement. She has 30 years experience working with governmental agencies, including the Washington State Department of Ecology, Washington State Department of Health, local City and County Planners, Fish & Wildlife, and the Corps of Engineers. Ms. Guhlke worked for Lincoln County for 17 years before coming to CH2M HILL, 14 of those years as the Environmental Health Director.

Representative Projects:

Task Leader, Post Street Bridge, JARPA and NEPA/SEPA Permitting, City of Spokane, Washington (2004, ongoing). Task leader managing permitting, including the preparation of a Joint Aquatic Resources Application (JARPA) and compliance of NEPA/SEPA. Conducted a fatal flaw permitting review of two bridge types to assist the City select the appropriate bridge design. JARPA permitting includes a Hydraulic Project Approval, Shorelines Permit, Section 404 and Section 401. NEPA/SEPA work includes cultural and historical resource information in accordance with Section 106 and updating a Section 4(f) Evaluation related to impacts on city parklands. Coordinating work with WSDOT, FHWA, City of Spokane, and other regulatory agencies.

Project Manager, Monroe/Lincoln Streets Connector Project, JARPA and NEPA/SEPA Permitting, City of Spokane, Washington (2004, ongoing). Project manager of permitting, including the preparation of a Joint Aquatic Resources Application (JARPA) and compliance of NEPA/SEPA. JARPA permitting includes a Hydraulic Project Approval, Shorelines Permit,

Section 404 and Section 401. NEPA/SEPA work includes cultural and historical resource information in accordance with Section 106 and updating a Section 4(f) Evaluation related to impacts on city parklands. Coordinating work with WSDOT, FHWA, City of Spokane, and other regulatory agencies.

Project Manager, Goodrich, Wastewater Engineering Report, Slug Discharge Control Plan, Industrial Hygiene Air Sampling and Air Permitting, 2004. Project Manager for preparation of an Engineering Report for a State Waste Discharge Permit from Department of Ecology (Ecology). Approved immediately upon submittal to Ecology. Project Manager for preparation of a slug discharge control plan associated with the engineering report. Project Manager for air sampling that was conducted at specific work areas to determine the safety of these work environments for plant workers. Project manager for modeling plant emissions (particulates) that was required for an air quality permit from the Spokane Air Pollution Control Authority (SCAPCA).

Task Leader, Graham Road Landfill, Application for Water Right Change, Waste Management, Inc., Spokane County, 2003-2004. Led the preparation of the application for a water right change, in coordination with Waste Management Inc of Spokane and Waste Management's attorney. The application was submitted to the Spokane County Conservancy Board and then to Ecology. The application included discussion on "beneficial use" and exemption information, a complete and fully executed form related to *Application for Change/Transfer of Water Right*, and supporting documentation for the water right change. The water right changes included the addition of a "purpose of use" (adding the purpose of industrial use, moving a portion of the "place of use") allowing the water to be used at multiple locations at the Graham Road facility, and acknowledgment that the "point of withdrawal" had changed from the prior well to a new well constructed in 2001. An historical accounting and drawings were prepared to support the application.

Task Leader, Stevens County Solid Waste Management Plan, Stevens County, 2003-2004. Managed data gathering and preparation of the Washington State Utilities and Transportation Commission (WUTC) cost assessment form, and assisted in the preparation the *Solid Waste Management Plan Update 2004* for the County. The plan looked at existing conditions, needs and opportunities, evaluations of the options, recommendations and implementation. The plan addressed waste characterization, waste reduction, recycling, landfill operations, transfer stations and drop box sites, and special wastes. Coordinated a financial cost analysis for a 20-year period to determine if the tipping fee was set at a rate that would accommodate operating, closure, and post-closure costs expected to be incurred by the County. Prepared a SEPA checklist.

Task Leader, Solid Waste Permit Application for Cells 2 and 3, Stevens County, 2004. Led preparation of a solid waste permit application that focused on the expansions cells (Cell 2 and Cell 3) at the Stevens County Landfill that also included demonstration that the Moderate Risk Waste (MRW) program met the new regulations under WAC 173-351. As part of the application, the Solid Waste Program Operations and Maintenance Plan and Closure/Post closure plan were updated. Prepared a SEPA checklist.

Task Leader, Environmental Assessment and Audit, Itron, Spokane, 2003–2004. Assisted with the management of *Phase I Environmental Site & Compliance Assessment* for the Spokane facility. CH2M HILL prepared reports for five facilities, one in Spokane, one in Trois Rivieres (Quebec), and three in Waseca (Minnesota). For each site, this work included a records review/historic map review, site reconnaissance, interviews and preparation of a Phase I ESA.

Task Leader, City of Spokane Fluoridation Study, Spokane, Washington, 2004. Led the permitting review of seven water supply sites within the city that might be considered for fluoridation systems. Determined that only one site required environmental permits and all sites needed special use permits or updates to existing special use permits.

Environmental Scientist, ICWEA Consulting Support, CH2M HILL Hanford Group, Richland, Washington, 2003. Providing assistance to CHG Tank Farms Closure team in strategy development and closure plan document preparation related to the closure of single-shell tanks. These component closure activity plans address regulatory requirements in accordance with *Hanford Federal Facility Agreement and Consent Order* (HFFACO) Milestone M-45-00, *Washington Administrative Code* (WAC) 173-303, "Dangerous Waste Regulations," and the *Resource and Conservation Act (RCRA) Permit for the Treatment, Storage, and Disposal of Dangerous Waste*, Rev. 7, referred to as the "Site-Wide Permit." Also provided oversight and guidance related to the SEPA/NEPA process for the accelerated closure of single-ll tanks, including review of EIS data packages.

Task Leader, Application for Site Certificate, Kittitas County Wind Project and Wildhorse Wind Project, Zilkha, 2003 and ongoing. Led the preparation of the public services, recreation, and land use sections for an Application for Site Certification for both of these wind projects. This document was submitted to the Energy Facility Site Evaluation Council (EFSEC). Information from these document sections were used to conduct an environmental analysis and used to prepare a draft and final EIS for both projects.

Project Manager, NPDES Permitting, TransAlta Centralia, LLC, Centralia, Washington, 2003. Managed the preparation of an Engineering Report, *Process Effluent Discharge to Big Hanaford Creek and On-site Irrigation and Hydrogeologic Report* for TransAlta Centralia Generation, LLC. The Engineering Report provided information related to discharging process effluent (cooling tower blowdown, stormwater, and low volume wastes) to Big Hanaford Creek and onsite irrigation near Centralia, Washington, in support of an NPDES permit. The Hydrogeologic Report documented the current condition of the hydrogeologic environment at two land application sites near the generation facility and was prepared in accordance with Ecology Publication No. 96-02, *Implementation Guidance for the Ground Water Quality Standards*. The technical information in this report was used by Ecology to assess the suitability of these sites for land application of wastewater from the facility, in accordance with NPDES permit requirements.

Task Leader, Wetlands Delineation and Wetlands Mitigation Plan, Kootenai County Landfill, Kootenai County, Idaho, 2003–2004. Managed the wetlands delineation and preparation of a *Wetlands Delineation Report*, and prepared the subsequent *Wetlands Mitigation Plan* for the Kootenai County Farm Landfill. In order to maximize space available for the East Landfill expansion, Kootenai County needed to impact existing wetlands. A subconsultant was

used to delineate the wetlands to determine the acres impacted and to define the function and values of these wetlands. Delineation resulted in the survey of five wetlands. A *Wetlands Mitigation Plan* for the impacted wetlands was prepared and submitted to the U.S. Army Corps of Engineers (USCOE). This plan explained how wetlands lost from the landfill development would be replaced with new wetlands of higher quality.

A vegetation plan was included in the *Wetlands Mitigation Plan*. This plan explained that the immediate task of constructing a perimeter berm (required by a Conditional Use Permit to provide visual screening of the landfill) would be mitigated by expansion of an existing pond. The plan further explained the need for future permitting for wetlands impacted when the East Landfill Cell is developed. Development of a new pond and wetland area was proposed for mitigation of these wetlands, located within the cell. The County was able to obtain a 20-year 404 Permit from the USCOE and a 401 Permit from the Division of Environmental Quality, allowing the County to expand the landfill and conduct the wetland mitigation projects in phases as needed.

Task Leader, Solid Waste Permitting and Gypsum Disposal/Reuse, TransAlta Generation LLC, Centralia, Washington, 2002–2003. Led preparation of TransAlta's 2003 solid waste permit to address new waste streams related to the construction and operation of a flue gas desulfurization (FGD) process at the generation station. The additional solid waste streams included a sludge/fly ash blend, a brine concentrate/fly ash blend, and bottom ash that has been in contact with chemicals used to clean the boiler. Gypsum is also a by-product of the FGD process, and is currently marketed as a raw material for the manufacture of wallboard, used as a concrete additive, or sold as a registered fertilizer (registration obtained with assistance from CH2M HILL). Surplus gypsum needed to be disposed in TransAlta's landfill, located at its mine, and a solid waste permit application were prepared to allow for the gypsum disposal in the mine. The operations and maintenance plans for both the power plant and the mine were updated to address the new waste materials. In addition, a SEPA checklist was prepared. Subsequently, TransAlta was issued a solid waste operating permit that allowed landfill disposal at the mine for the sludge/fly ash blend, a brine concentrate/fly ash blend, bottom ash that had been in contact with chemicals used to clean the boiler, and gypsum.

As mentioned above, assisted TransAlta to obtain fertilizer registration from the Washington State Department of Agriculture, which included sampling and laboratory testing of total metals, gypsum purity, TCLPs, and total halogenated organic compounds (HOCs); and preparation of a label and specific forms. In addition, investigated gypsum disposal/reuse options that included landspreading, use as a concrete additive, and marketing gypsum as an agricultural commercial product in Washington, Oregon, and Wyoming, and the potential disposal of some surplus gypsum in a nearby mine, once environmental protection was demonstrated.

Project Manager, Sun Lakes State Park Constraints Analysis, Walker-Macy, 2002. Managed a constraints/opportunity analysis and report that was used by Washington State Parks to guide the development of the concessionaire's area at Sun Lakes State Park. The analysis assessed critical environmental, regulatory, and permitting issues affecting site development and outlined potential impacts, opportunities, and constraints to guide site development. Assessment and recommendations were prepared for rare plants and animals (Endangered

Species Act), cultural resources (National Historic Preservation Act), dredge and fill activities in waters of the United States, including wetlands (Sections 404 and 401 of the Clean Water Act), Grant County comprehensive plan, zoning, and development regulations, critical areas, shoreline (Shoreline Act and Grant County Master Shoreline Master Plan) regulations, and other regulatory concerns identified through the planning process.

The Constraints/Opportunities Report summarized site issues and provided an inventory that addressed these issues, based on regulatory information from agencies. A table listing applicable environmental permits, responsible agencies, time frames to obtain approvals, and permit fees were provided in the report.

Task Leader, Graham Road Landfill, Landscape Plan and Cell 4 and 5 Design Report, Waste Management, Inc., Spokane County, 2002. Led the landscaping plan and design report for Cell 4 and Cell 5. The landscaping plan was developed for the perimeter of the Graham Road Facility (GRF) as a component to permitting requirements of Spokane County's Conditional Use Permits for the GRF expansion project. These conditional use permits support new cell construction and subsequent landfilling in a northern expansion area (80 acres) and operations for a southwestern expansion area (172 acres). The plan presented landscape design elements and associated earthwork to be performed within the 80-acre expansion area in 2002. Also presented was a phasing plan for completion of landscape elements associated with the rest of the landfill. In 2003, prepared a landscaping plan for the 172 acres.

Project Manager, Power Plant Project, PPL Global, Starbuck, Washington, 1999-2002. Managed the permitting of a 1,200-megawatt gas-fired power plant located in eastern Washington. This work included working with the Energy Facility Site Evaluation Council (EFSEC) and preparation of the Application for Site Certification for the power generation plant, and gas pipeline/meter regulatory station. It included analyses on all environmental resources, similar to an EIS, such as air, water, vegetation and wildlife, energy and natural resources, environmental health, land and shoreline use, recreational use, cultural resources, agricultural crops and livestock, socio-economics, noise, transportation, public services, and the physical environment. Studies related to the project included an archaeological survey searching for Native American and other historical resources (coordinated cultural resource investigations and preparation of a report with five tribes), and a biological survey. The land use analyses included an assessment of recreation, agricultural use (both livestock and crop), shoreline use, critical area assessments and compliance with zoning and a conditional use permit.

Assisted in the acquisition and mitigation for a water right for an onsite supply well, managed a Prevention of Significant Deterioration (PSD) permit that included collection of meteorological data and modeling, managed a noise study, provided compliance with Section 7 of the Endangered Species Act that included preparation of a Biological Assessment, provided compliance with Section 106 of the Historical Preservation Act that included a Cultural Resources Report, provided an Engineering Report to support a State Waste Discharge Permit, provided a Stormwater Pollution Prevention Plan for a NPDES permit, and provided public involvement services that included public informational meetings, scoping for the Application for Site Certification, small group presentations to City Councils, the County Commissioners, and other local groups.

Prepared an Environmental Report (ER) for the gas metering/regulating station that would serve the power plant. The ER focused particularly on cultural resources, the endangered species act and public safety issues.

Project Manager, Transmission Line for Starbuck Power Plant Project, Bonneville Power Administration, Portland, Oregon, 2000-2002. Managed preparation of an Environmental Report (ER) that was used to prepare a Draft Environmental Impact Statement for BPA's approximate 17-mile transmission line from a proposed power plant to Lower Monumental dam. All environmental resources were analyzed, similar to an EIS, including air, water, vegetation and wildlife, energy and natural resources, environmental health, land and shoreline use, recreational use, cultural resources, agricultural crops and livestock, socio-economics, transportation, public services, and the physical environment. This work included an archaeological survey and a biological survey that resulted in re-location of the transmission line route to avoid cultural resource features. Provided coordination with the power plant proponent, the Energy Facility Site Evaluation Council (EFSEC), Bonneville Power Administration and five tribes (Nez Perce, Yakama Nation, Confederated Tribes of the Umatilla, Colville Confederated Tribes, and the Wanapum Band).

Task Leader, SPCC Plan, Confidential Client, Spokane, Washington, 2001-2002. Led the update for two Spill Prevention Control and Countermeasure Plans—one for the Spokane Valley facility and the other for the Pasco facility. The investigation of the Spokane Valley facility revealed deficiencies in secondary containment requirements that were subsequently corrected. A new site map was developed to more accurately portray the Spokane Valley facility. The Pasco facility update included compliance with new SPCC regulations, being promulgated for implementation in 2003. In addition, the existing wastewater disposal method (evaporation by heating coils), used for reverse osmosis and boiler blow down wastewaters, was reviewed and compared to other wastewater disposal methods (solar evaporation pond and landspreading) to determine if a different disposal method should be used. Reviewed permitting issues related to existing and proposed wastewater disposal options.

Task Leader, Regional Composting Facility Permitting, Norcal Waste Systems, Spokane, Washington, 2000. Provided permitting assistance for solid waste disposal permitting and associated air permitting to Norcal for site modifications and improvements of the Spokane Regional Composting Facility. Spokane's Regional Solid Waste System awarded Norcal the opportunity to develop and manage its compost facility for Spokane County and the City of Spokane in the spring of 2000.

Project Manager, Various Projects at Trentwood Works, Kaiser Aluminum and Chemical Corporation, Spokane, Washington, 1997-2000. Projects for Kaiser Aluminum and Chemical Corporation's Trentwood Works included: Water System Plan, Water Sampling Plan, Water Utilities Mapping, Storm Water Pollution Prevention Plan, Risk Management Planning (Air Emission Risks), Spill Prevention and Countermeasure and Control (SPCC) Plan, Outfall Analysis, and update to Wastewater Treatment Plant Plan. Also managed Process Safety Management for the chlorine system and the flammables (MEK) process.

Task Leader, Mine Reclamation Plan for Addy Plant site, Stranger Creek, and Blue Creek mining sites, Northwest Alloys, Addy, Washington, 1999. Assisted in the preparation of the

mine reclamation plan for three Northwest Alloys sites. Prepared a SEPA checklist related to the reclamation plan.

Project Manager, Various Projects, US-KDK Industrial Facility, Moses Lake, Washington, 1997-2000. Conducted an All Known and Reasonable Technologies (AKART) Analysis, and completed a State Environmental Policy Act (SEPA) Environmental Checklist and Engineering Report for a National Pollutant Discharge Elimination System (NPDES) permit for discharge of select wastewater streams to Crab Creek. This work included coordination and approval by the Washington State Department of Ecology. Assisted KDK with a Joint Aquatic Resource Permit Application (JARPA) that addressed a shorelines permit, wetlands, hydraulic water approval, and Grant County's Critical Areas Ordinance. Managed a subconsultant for a wetlands delineation and a wetlands mitigation plan.

Task Leader, Flood Analysis Project, Law School, Gonzaga University, Spokane, Washington, 1999. Led shoreline permitting for ALSC Architects related to the construction of the new Law School for Gonzaga University. A hydraulic analysis was conducted to demonstrate that placement of the Law School building would not raise the flood elevation and that the project complied with the Floodplain Management Ordinance for the City of Spokane.

Project Manager, JARPA Permitting, Inland Power & Light, Inc., Spokane, Washington, 1999. Managed JARPA permitting for a transmission line located near Inland Empire Paper Company, which emphasized Hydraulic Project Approval, a Shorelines Permit from both the Town of Millwood and Spokane County, and an easement from Washington State Department of Natural Resources. Also prepared the Environmental Checklist for SEPA.

Project Manager, Special Project, Confidential Mining Client, Idaho, 1998. Conducted a site survey of the mining facilities (mill and two jig plants), identified stormwater pathways and potential sources of pollution contaminants, prepared maps showing outfalls and drainage management, and prepared a Stormwater Pollution Prevention Plan for a 404 Permit for the U.S. Army Corps of Engineers, Idaho.

Project Manager, FERC Relicensing, Cabinet Gorge and Noxon Rapids Hydroelectric Facilities, Washington Water Power, Spokane, Washington, 1998. Managed record-keeping work related to FERC relicensing. As record keeper, attended natural resource committee meetings on a regular basis to take notes, compiled a draft summary of the discussion, distributed a draft to reviewers who facilitated the meetings, finalized the meeting summary, and then sent copies to WWP for distribution to meeting participants.

Task Leader, Lincoln Street Bridge Project, City of Spokane, Washington, 1997. Lead for public involvement and permitting. Developed a Public Participation Plan; coordinated and planned meetings for the Citizens Advisory Committee, the Technical Advisory Committee, and the public; worked with a vendor to develop two videos; prepared mailings describing various stages of the project; and provided public notifications. Also was Task Leader for permitting related to the Lincoln Street Bridge project that included water quality, shorelines, and fish and wildlife issues. Prepared a JARPA with supplemental information, organized agency meetings, and presented information at the Shoreline Public Informational Meeting and

Shoreline Public Hearing. Obtained an Hydraulic Approval for the project. Also assisted with the Shorelines Permit appeal to the Washington State Shorelines Appeal Board.

Task Leader, Chester Creek Improvements Project, Spokane County, Washington, 1997. Led permitting, which included permits for floodplain development, wetlands, and water quality. Obtained permits or approvals as follows: a Nationwide 404 Permit from the Corps of Engineers, a 401 Water Quality Certification from Washington State Department of Ecology, agreement from Washington State Fish and Wildlife that a Hydraulics Approval was not necessary, a Floodplains Substantial Development Permit from Spokane County, compliance with Spokane County's Critical Areas Ordinance (Wetlands) and a permit from the Union Pacific Railroad. Managed a subconsultant for a wetlands delineation and wetlands mitigation plan.

Task Leader, Spokane Comprehensive Solid Waste Management Plan, Spokane Regional Solid Waste System, City of Spokane, Washington, 1997. Led sections of the plan related to Baseline or Existing Conditions, Waste Reduction, and Recycling and Special Waste (Biosolids, Septage, and Yard Waste Land Application Programs).

Project Manager, Underground Storage Tank Removal and Design/Construction of new Fueling Station, Eastern Washington University, Cheney, Washington, 1997. Managed this dual assignment. Approvals were necessary from the Spokane Air Pollution Control Authority (SCAPCA) and Washington State Department of Ecology.

Task Leader, Growth Media Report and Mine Contingency Plan, Bunker Hill Mine Project, Kellogg, Idaho, 1997. Provided research, report development, and preparation of a Growth Media report, and also assisted on a Mine Contingency Plan for the Control of Acid Mine Drainage.

Project Manager, AKART Analysis, Advanced Silicon Materials (ASIMI), Moses Lake, Washington, 1997. Managed an AKART Analysis and regulatory compliance. The wastewater streams for the facility's processes were identified, and sampling was done to define wastewater flows and characterization. This information was used to develop a materials balance that was used during the analysis of wastewater disposal alternatives. From this analysis, preferred alternatives were identified that represented a balance between environmental benefit and costs. The AKART Report was approved by the Washington State Department of Ecology. Managed inspection of wastewater pond liners and reports on findings.

Task Leader, Public Participation Plan, Northwest Alloy L Bar Site, Chewelah, Washington, 1997. Prepared a Public Participation Plan in coordination with Ecology's guidelines.

Task Leader, Wastewater Facility Project, City of Chewelah, Washington, 1996-1997. Led permitting and funding efforts for the project. The City replaced three lagoons with an oxidation ditch-type extended aeration mechanical wastewater treatment plant. In addition, trunk sewers were replaced to control infiltration/inflow. Obtained the following permits for Chewelah: a Nationwide Permit from the Corps of Engineers for two sewer crossings (one over Paye Creek and the other over Chewelah Creek), a Temporary Exceedance of Water Quality approval from the Washington State Department of Ecology, a Hydraulic Approval from

Washington State Department of Fish and Wildlife, and a Shorelines Permit from Stevens County. A wetlands 404 and 401 permit was avoided by siting the treatment facility in an existing lagoon, which was exempt from the wetland's regulations.

Project Coordinator, Northwest Regional Power Facility (NRPF), Northwest Power Enterprises (NPE, formerly KVA Resources, Inc.), Creston, Washington, 1993-1995. Coordinated for the Northwest Regional Power Facility (NRPF) being developed by Northwest Power Enterprises (NPE or formerly KVA Resources, Inc). Maintained communication internally within CH2M HILL as well as with NPE's project staff and NPE's attorney. Regional water management issues were addressed to determine alternative water supply sources for operating this facility. Among these alternatives, developed in a report, were piping treated water from the Spokane Wastewater Treatment Plant, piping surface water from Banks Lake, and piping surface water from the Columbia River.

Project Manager, NRPF Public Involvement, NPE, Creston, Washington, 1993-1995. Managed NRPF public involvement. Coordinated meetings and activities with local, state, and tribal agencies; provided for interaction with legislative representatives and local government officials; prepared and organized for special presentations and public meetings; served as a liaison with the public and developed a public and agency understanding of the projects goals and objectives. Negotiated with city, county, and state governmental agencies; Indian tribes; and special interest groups over a variety of issues including air, water, and socioeconomic concerns.

Provided permitting and regulatory compliance assistance to the NRPF. Assisted KVA in preparing the Site Certificate Application (similar to an EIS) that was submitted to the Energy Facility Site Evaluation Council (EFSEC). Application sections included Pertinent Federal, State, and Local Permitting Requirements, Public Services and Utilities, Land and Shoreline Use, Recreation, and Socioeconomic Impacts.

Project Manager, Creston Avenue Reconstruction Project, Creston, Washington, 1994. Managed the engineering design and construction management work for a street that serves the City Hall, the Post Office, and the Fire Station, and also functions as a major thoroughfare for the town. Stormwater management was of specific concern in the road design.

Task Leader, Kettle Falls Generating Station Regulatory Compliance, Washington Water Power Company, Kettle Falls, Washington, 1991-1992.. Provided regulatory compliance related to the wood ash generated from the station. The ash generated from the incinerator was designated a special waste to avoid the hazardous waste regulations. The ash was also licensed as an agricultural product. Task leader of a demonstration project that was conducted to determine the viability and practicality of using wood ash as a soil amendment for agricultural use.

In addition to the foregoing, Ms. Guhlke has prepared environmental checklists for the following projects:

Stevens County Solid Waste Permit Application for Expansion of Cell 2 and Cell 3 (2004)
TransAlta NPDES Permitting of Generation Facility (2003)

TransAlta Solid Waste Permit Application for Disposal at Mine (2003)
Northwest Alloy's L-Bar Cleanup Action Plan (2000)
Spokane County's Chester Creek Channel Improvements Project (1997-1999)
US-KDK's application for a NPDES permit to discharge to Crab Creek (1998)
The City of Spokane's Wastewater Improvements Project (Activated Sludge Aeration System Replacement) (1998)
Spokane Regional Solid Waste System's Comprehensive Solid Waste Management Plan (1998)
Northwest Alloys' L-Bar Source Removal Project (1996-1997)
Northwest Alloy's L-Bar Land Application of Evaporation Pond Water (1997)
Spokane County's Chester Creek Watershed Management Plan (1997)
Northwest Alloys' L-Bar site improvements (1995-1996)
Chewelah's Wastewater Disposal Facility (1996)
EWU's Fuel Station and removal of underground storage tanks (1995)
Spokane County's Interim Action Cover System of the Mica Landfill (1993)
WWP's Vehicle Fuel Wash Facility (1993)
Assisted on the Holly Sugar/Pacific Northwest Sugar Company's Environmental Impact Statement for their sugar beet facility at Moses Lake.
Task Leader for the Environmental Checklist for Northwest Alloys' Reclamation plans for the Addy Plant site, Stranger Creek, and Blue Creek mining sites. (1999)

Project Experience Prior to CH2M HILL:

As Environmental Health Director for Lincoln County (Washington) prior to joining CH2M HILL, Ms. Guhlke reviewed applications, conducted the SEPA process, and issued permits. County permit/approvals included on-site septic tank permits, solid waste management permits (landfills, land application sites, and yard waste disposal sites), short and long plat approvals, food establishment permits, mobile home park permits, and swimming pool operation permits. She coordinated environmental compliance activities of eight cities and towns within the county, as well as environmental compliance activities between county departments. She was involved in water management issues related to Lake Roosevelt, the Columbia River System, and local groundwater supplies. She also participated in EIS scoping and conducted EIS reviews for Lincoln County. She worked on several large-scale projects including the proposed Washington Water Power Coal-Fired Electric Generating Station, the Super-Conductor Super-Collider, ECOS Hazardous Waste Landfill, and Mt. Tolman.

Professional Organizations/Affiliations:

Washington State Environmental Health Association
Washington State Board for Registered Sanitarians

Honors and Awards

Lincoln County Commissioners Outstanding Citizen Award

Publications

Guhlke, Marlena R. *Management Program to Control Flies and Odor in Poultry Manure Storage and Disposal*. Journal of Environmental Health, May/June 1985, Volume 47, Number 6.

Employment History

1974-1977, Lincoln County, Lincoln County Laboratory Director and Sanitarian

1977-1991, Lincoln County, Lincoln County Environmental Health Director

1991-to present, CH2M HILL, Inc.
