
LOUIS J CARUSO, LG, LHG

Portland Office Manager/Project Director

Education

PhD Candidate, Geochemistry, Stanford University, 1988
MS, Geological Science, University of Maine, 1979
BS, Earth and Environmental Sciences, Queens College, 1976

Professional Licenses

Licensed Geologist, WA

Associations and Affiliations

Oregon SWANA Board Member (2009-Present)

Professional Experience

Mr. Louis Caruso, LG, LHG, joined SCS in 2009 and has been working in the environmental sciences field since 1979 in a variety of research and private consulting roles. Mr. Caruso is a project director experienced in, and responsible for, conducting and managing geologic/hydrogeologic investigations, environmental monitoring programs, and soil and groundwater contamination studies at industrial facilities and active and closed solid waste facilities in Oregon, Washington, California, and Alaska. Mr. Caruso currently manages the Portland, Oregon, office of SCS Engineers/Field Services, which employs several geologists, environmental scientists, and field service technicians. He is a Licensed Geologist and Hydrogeologist in the State of Washington (License No. 1329).

Mr. Caruso leads SCS's Northwest area landfill hydrogeology/environmental compliance group and serves as Client Manager for several of SCS's large Northwest landfill clients and facilities. Mr. Caruso has worked on a wide range of solid waste related projects, including preparation of environmental monitoring plans, site characterization studies in support of lateral expansion of existing facilities, preliminary assessments, remedial investigation and feasibility study (RI/FS) and Model Toxics Control Act (MTCA) groundwater investigations, landfill gas-related contaminant investigations, and design and installation of compliance monitoring networks at closed and active municipal solid waste (MSW) and construction, demolition and landclearing debris (CDL) landfills in the Northwest. His current responsibilities include designing work scopes, providing technical oversight for projects; assessing, interpreting, and reporting information to clients and agencies; providing senior review of technical reports and work plans; developing and managing project budgets; directing field services staff, environmental scientist, and geologists/hydrogeologists, and working collaboratively with landfill engineers on joint projects.

Mr. Caruso is an active member of the Board of Directors for the Oregon (Beaver) Chapter of SWANA and was a member of a joint industry-regulatory agency (Solid Waste Division of the

Oregon Department of Environmental Quality) advisory group developing guidance for conducting detection and assessment monitoring at solid waste landfills in Oregon. His pre-environmental consulting experience included five years as a staff research geologist at the Massachusetts Institute of Technology and two years in the PhD program in the School of Earth Sciences at Stanford University. Mr. Caruso also has a Master of Sciences degree in Geological Sciences from the University of Maine at Orono. From 1993 through 2008, his previous employment included EMCON, HWA GeoSciences, and Shaw Environmental.

Project Experience

Commonwealth Real Estate Services, Phase I Environmental Site Assessment (ESA), Bavarian Village Mobile Home Park, Mt Angel, OR. Project Director responsible for project quality assurance (QA) and final document review for the performance of a Phase I ESA of the Bavarian Village Mobile Home Park in Mt Angel, OR. The project was performed in accordance with ASTM E 1527-05 and Principal's Guidance Document A-05, and included a historical and air photo review, personal interviews, review of utility and site visit information, and the preparation of a report of findings. The project was completed on an expedited schedule to support a pending property transaction.

Cowlitz County (WA), Post-Closure Environmental Monitoring, OM&M, and Supplemental Studies, Mt Solo Landfill, Longview, WA. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the post-closure environmental monitoring and reporting at the Mt Solo Landfill in Longview, WA. Tasks also included operations and maintenance (O&M) services and supplemental studies.

Lane County (OR), Environmental Monitoring (2009), Florence Landfill, Florence, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of semi-annual groundwater monitoring at the active Florence Landfill in Florence, OR. Tasks included field monitoring, compiling and interpreting lab data, and preparing a sampling memo. Activities were performed consistent with the site's EMP and the State of Oregon solid waste regulation.

Lane County (OR), Environmental Monitoring (2009), Short Mountain Landfill, Eugene, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of semi-annual groundwater monitoring at the active Short Mountain Landfill in Eugene, OR. Tasks included field monitoring, compiling and interpreting lab data, and preparing a sampling memo. Activities were performed consistent with the site's EMP and the State of Oregon solid waste regulation.

Waste Connections, Inc., Environmental Monitoring and Reporting (2010), Finley Buttes Regional Landfill (FBRL), Boardman, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring at the Finley Buttes Landfill in Boardman, OR. Monitoring events included groundwater elevation surveys, landfill gas monitoring, quarterly groundwater and leachate sampling, and laboratory data management and review. Additional tasks involved compiling and interpreting lab data, preparing and writing reports, and developing and implementing the site's revised environmental monitoring plan (EMP) consistent with the State of Oregon solid waste regulation.

Waste Connections, Inc., Environmental Monitoring and Reporting (2009), Finley Buttes Regional Landfill (FBRL), Boardman, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring at the Finley Buttes Landfill in Boardman, OR. Monitoring events are consistent with the site's Environmental Monitoring Plan (EMP) and include groundwater elevation surveys, landfill gas monitoring, quarterly groundwater and leachate sampling, and laboratory data management and review. Additional tasks involved compiling and interpreting lab data, preparing and writing reports, and developing and implementing the site's revised EMP consistent with the State of Oregon solid waste regulation.

Waste Connections, Inc., Environmental Monitoring and Reporting (2010), Wasco County Landfill (WCL), The Dalles, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring events at the Wasco County Landfill in The Dalles, OR. Monitoring events included groundwater elevation surveys, LFG monitoring, and quarterly groundwater and leachate sampling. Regulatory activities, and laboratory data management and review involved compiling and interpreting lab data, and preparing and writing reports. Additional tasks included developing and implementing the site's revised environmental monitoring plan (EMP) consistent with the State of Oregon solid waste regulation.

Waste Connections, Inc., Environmental Monitoring and Reporting (2009), Wasco County Landfill (WCL), The Dalles, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the execution of quarterly environmental monitoring events at the Wasco County Landfill in The Dalles, OR, consistent with the site's EMP. Monitoring events included groundwater elevation surveys, LFG monitoring, and quarterly groundwater and leachate sampling. Performed regulatory required activities, as well as laboratory data management and review. These activities include compiling and interpreting lab data and preparing and writing reports. Also involved developing and implementing the site's revised EMP consistent with the State of Oregon solid waste regulation.

Waste Connections, Inc., Environmental Monitoring Plan (EMP) Update, Finley Buttes Regional Landfill (FBRL), Boardman, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the preparation of an updated Environmental Monitoring Plan (EMP) for the Finley Buttes Landfill in Boardman, OR, consistent with the site's solid waste disposal permit requirements.

Waste Connections, Inc., Environmental Monitoring Plan (EMP) Update, Wasco County Landfill (WCL), The Dalles, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the development of an updated environmental monitoring plan (EMP), consistent with the State of Oregon solid waste regulation, for the Wasco County Landfill in The Dalles, OR.

Waste Connections, Inc., Environmental Monitoring Plan (EMP), Finley Buttes Regional Landfill (FBRL), Boardman, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the

development of the environmental monitoring plan (EMP) for the Finley Buttes Landfill in Boardman, OR.

Waste Connections, Inc., Environmental Monitoring Plan (EMP), Wasco County Landfill (WCL), The Dalles, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the development of the environmental monitoring plan (EMP) for the Wasco County Landfill in The Dalles, OR.

Waste Connections, Inc., Landfill Gas (LFG) Extraction Test, Wasco County Landfill (WCL) (Phase I Area), The Dalles, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of a landfill gas extraction test at the Wasco County Landfill in The Dalles, OR.

Waste Connections, Inc., Landfill Gas (LFG) Probe Installation, Wasco County Landfill (WCL), The Dalles, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the installation of three probes to monitor for subsurface landfill gas concentrations at the Wasco County Landfill in The Dalles, OR. Probes were installed at deeper depths than with the existing barholes.

Waste Connections, Inc., Low-Flow Purge Sampling Implementation, Finley Buttes Regional Landfill (FBRL), Boardman, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the implementation of low-flow purge sampling at the Finley Buttes Landfill in Boardman, OR.

Waste Management, Inc., Background Monitoring and Environmental Monitoring Plan (EMP) (2009), Hillsboro Landfill, Hillsboro, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of background environmental monitoring and the development of an environmental monitoring plan (EMP) update at the Hillsboro Landfill in Hillsboro, OR.

Waste Management, Inc., Environmental Monitoring and Reporting (2010), Greater Wenatchee Regional Landfill (GWRL), East Wenatchee, WA. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring events at the Greater Wenatchee Regional Landfill (GWRL) in East Wenatchee, WA. Monitoring activities were consistent with the site's environmental monitoring plan (EMP) and included groundwater elevation surveys, LFG monitoring, and quarterly groundwater and leachate sampling. Regulatory activities, and laboratory data management and review involved compiling and interpreting lab data, and preparing and writing reports. Tasks also included developing and implementing the site's revised EMP based on the State of Washington's updated solid waste regulations.

Waste Management, Inc., Environmental Monitoring and Reporting (2009), Greater Wenatchee Regional Landfill (GWRL), East Wenatchee, WA. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring at the Greater Wenatchee Regional Landfill (GWRL) in East Wenatchee, WA. Monitoring events are consistent with the site's Environmental Monitoring Plan (EMP) and include groundwater elevation surveys, landfill gas monitoring, quarterly groundwater and leachate sampling, and

laboratory data management and review. Additional tasks involved compiling and interpreting lab data, preparing and writing reports, and developing and implementing the site's revised EMP based on the State of Washington's updated solid waste regulations.

Waste Management, Inc., Environmental Monitoring and Reporting (2010), Riverbend Landfill (RLF), McMinnville, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring events at the Riverbend Landfill in McMinnville, OR. Monitoring activities were consistent with the site's environmental monitoring plan (EMP) and included groundwater elevation surveys, LFG monitoring, and quarterly groundwater and leachate sampling. Regulatory activities, and laboratory data management and review involved compiling and interpreting lab data, and preparing and writing reports. Tasks also included developing and implementing the site's revised EMP based on the State of Oregon updated solid waste regulation.

Waste Management, Inc., Environmental Monitoring and Reporting (2009), Riverbend Landfill (RLF), McMinnville, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring at the Riverbend Landfill in McMinnville, OR, consistent with the site's EMP. Monitoring events included groundwater elevation surveys, LFG monitoring, and quarterly groundwater and leachate sampling. Performed regulatory required activities, as well as laboratory data management and review. These activities include compiling and interpreting lab data and preparing and writing reports. Also involved developing and implementing the site's revised EMP consistent with the State of Oregon solid waste regulation.

Waste Management, Inc., Environmental Monitoring and Reporting (2010), Hillsboro Landfill, Hillsboro, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of semiannual environmental monitoring events at the Hillsboro Landfill in Hillsboro, OR. Monitoring activities were consistent with the site's environmental monitoring plan (EMP) and included groundwater elevation surveys, LFG monitoring, and quarterly groundwater and leachate sampling. Regulatory activities, and laboratory data management and review involved compiling and interpreting lab data, and preparing and writing reports.

Waste Management, Inc., Environmental Monitoring and Reporting (2009), Hillsboro Landfill, Hillsboro, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring at the Hillsboro Landfill in Hillsboro, OR. Monitoring events are consistent with the site's Environmental Monitoring Plan (EMP) and include groundwater elevation surveys, landfill gas monitoring, quarterly groundwater and leachate sampling, and laboratory data management and review. Additional tasks involved compiling and interpreting lab data, preparing and writing reports, and developing and implementing the site's revised EMP consistent with the State of Oregon solid waste regulation.

Waste Management, Inc., Environmental Monitoring and Reporting (2010), Capitol Disposal Landfill (CDLF), Juneau, AK. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the

performance of quarterly environmental monitoring events at the Capitol Disposal Facility in Juneau, AK. Monitoring activities were consistent with the site's environmental monitoring plan (EMP) and included groundwater elevation surveys, LFG monitoring, and quarterly groundwater and leachate sampling. Regulatory activities, and laboratory data management and review involved compiling and interpreting lab data, and preparing and writing reports.

Waste Management, Inc., Environmental Monitoring and Reporting (2009), Capitol Disposal Landfill (CDLF), Juneau, AK. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring at the Capitol Disposal Landfill (CDL) in Juneau, AK. Monitoring events are consistent with the site's Environmental Monitoring Plan (EMP) and include groundwater elevation surveys, landfill gas monitoring, quarterly groundwater and leachate sampling, and laboratory data management and review. Additional tasks involved compiling and interpreting lab data, preparing and writing reports, and developing and implementing the site's revised EMP consistent with the State of Alaska solid waste regulation.

Waste Management, Inc., Environmental Monitoring and Reporting (2010), Graham Road Recycling and Disposal Facility, Medical Lake, WA. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring events at the Graham Road Recycling and Disposal Facility in Medical Lake, WA. Monitoring activities were consistent with the site's environmental monitoring plan (EMP) and included groundwater elevation surveys, LFG monitoring, and quarterly groundwater and leachate sampling. Regulatory activities, and laboratory data management and review involved compiling and interpreting lab data, and preparing and writing reports. Tasks also included developing and implementing the site's revised environmental monitoring plan (EMP) based on the State of Washington's updated solid waste regulations.

Waste Management, Inc., Environmental Monitoring and Reporting (2009), Graham Road Recycling and Disposal Facility, Medical Lake, WA. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of quarterly environmental monitoring at the Graham Road Recycling and Disposal Facility in Medical Lake, WA. Monitoring events are consistent with the site's Environmental Monitoring Plan (EMP) and include groundwater elevation surveys, landfill gas monitoring, quarterly groundwater and leachate sampling, and laboratory data management and review. Additional tasks involved compiling and interpreting lab data, preparing and writing reports, and developing and implementing the site's revised EMP based on the State of Washington's updated solid waste regulations.

Waste Management, Inc., Environmental Monitoring Plan (EMP) (2010), Hillsboro Landfill, Hillsboro, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the development of an updated environmental monitoring plan (EMP), consistent with the State of Oregon solid waste regulation, for the Hillsboro Landfill in Hillsboro, OR.

Waste Management, Inc., Groundwater Background Monitoring (MW-2R) and Groundwater Monitoring Plan (GWMP) Update, Capitol Disposal Landfill (CDL), Juneau, AK. Project

Director responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of background groundwater monitoring and data management activities at the Capitol Disposal Landfill (CDL) in Juneau, AK. Tasks also included finalizing the revised (draft) groundwater monitoring plan (GWMP).

Waste Management, Inc., Landfill Gas (LFG) Monitoring Plan and EMP Update, Greater Wenatchee Regional Landfill (GWRL), East Wenatchee, WA. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the development of a landfill gas monitoring plan at the Greater Wenatchee Regional Landfill (GWRL) in East Wenatchee, WA. Tasks also included revising the site's environmental monitoring plan (EMP) based on the State of Washington's updated solid waste regulations.

Waste Management, Inc., Landfill Gas (LFG) Monitoring Plan Update (2010), Greater Wenatchee Regional Landfill (GWRL), East Wenatchee, WA. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the development of a landfill gas monitoring plan update at the Greater Wenatchee Regional Landfill (GWRL) in East Wenatchee, WA.

Waste Management, Inc., Monitoring Well Decommissioning and Landfill Gas (LFG) Probe Replacement, Riverbend Landfill (RLF), McMinnville, OR. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the replacement of landfill gas monitoring probes at the Riverbend Landfill (RLF) in McMinnville, OR. Tasks also included decommissioning several wells.

Waste Management, Inc., Monitoring Well Decommissioning, Graham Road Recycling and Disposal Facility, Medical Lake, WA. Project Manager responsible for technical direction, budget management, scheduling, staffing, subcontractor management, and document preparation for the performance of monitoring well decommissioning at the Graham Road Recycling and Disposal Facility in Medical Lake, WA.

Waste Management, Inc., Monitoring Well MW-5 Replacement, Capitol Disposal Facility (CDLF), Juneau, AK. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the decommissioning of an existing monitoring well and the installation of its replacement at the Capitol Disposal Facility (CDF) in Juneau, AK. Tasks included of the development of a work plan for submittal to ADEC, fieldwork (well decommissioning and installation activities, well development, and new well survey), and preparation of a report.

Waste Management, Inc., Notice of Construction (NOC) Permit Modification, Greater Wenatchee Regional Landfill (GWRL), East Wenatchee, WA. Project Hydrogeologist responsible for data management and interpretation, and report preparation for the modification of the Notice of Construction (NOC) permit for the Greater Wenatchee Regional Landfill (GWRL) and Recycling Facility in East Wenatchee, WA. The revision increases the annual limit of asphalt and concrete allowed for crushing.

Waste Management, Inc., Storm Water Monitoring and Reporting (2009), Washington County Operations, Portland, OR. Project Director responsible for final document review for the

execution of monthly wastewater treatment and storm water monitoring events at the Washington County Operations facility in Portland, OR, consistent with the site's Wastewater Discharge Permit, NPDES permit, and SWPCP. Monthly events included preventative maintenance inspections of the facility and inspecting all on-site storage tanks, visual monitoring of storm water outfalls, and collecting wastewater discharge samples. Coordinated and performed storm water monitoring events consistent with the site's SWPCP. Collected storm water samples from site outfalls. Coordinated and performed a dye test to determine storm water flow from the site's drainage basins to outfalls. Performed regulatory required activities, as well as laboratory data management and review. These activities include compiling and interpreting lab data and preparing reports.

Waste Management, Inc., Storm Water Monitoring and Reporting (2009), Wastech Facility, Portland, OR. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the execution of monthly wastewater treatment and storm water monitoring events at the Wastech facility in Portland, OR, consistent with the site's Wastewater Discharge Permit, NPDES permit, and SWPCP. Monthly events included preventative maintenance inspections of the facility and inspecting all on-site storage tanks, visual monitoring of storm water outfalls, and collecting wastewater discharge samples. Coordinated and performed storm water monitoring events consistent with the site's SWPCP. Collected storm water samples from site outfalls. Coordinated and performed a dye test to determine storm water flow from the site's drainage basins to outfalls. Performed regulatory required activities, as well as laboratory data management and review. These activities include compiling and interpreting lab data and preparing reports.

Waste Management, Inc., Storm Water Monitoring and Reporting (2009), Sandy Transfer Station, Sandy, OR. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the execution of monthly wastewater treatment and storm water monitoring events at the Sandy Transfer Station in Sandy, OR, consistent with the site's Wastewater Discharge Permit, NPDES permit, and SWPCP. Monthly events included preventative maintenance inspections of the facility and inspecting all on-site storage tanks, visual monitoring of storm water outfalls, and collecting wastewater discharge samples. Coordinated and performed storm water monitoring events consistent with the site's SWPCP. Collected storm water samples from site outfalls. Coordinated and performed a dye test to determine storm water flow from the site's drainage basins to outfalls. Performed regulatory required activities, as well as laboratory data management and review. These activities include compiling and interpreting lab data and preparing reports.

Waste Management, Inc., Storm Water Monitoring and Reporting (2009), Troutdale Material Recovery Facility (MRF), Troutdale, OR. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the execution of monthly wastewater treatment and storm water monitoring events at the Troutdale Material Recovery Facility (MRF) in Troutdale, OR, consistent with the site's Wastewater Discharge Permit, NPDES permit, and SWPCP. Monthly events included preventative maintenance inspections of the facility and inspecting all on-site storage tanks, visual monitoring of storm water outfalls, and collecting wastewater discharge samples. Coordinated and performed storm water monitoring events consistent with the site's SWPCP. Collected storm water samples from site outfalls. Coordinated and performed a dye test to determine storm water flow from the site's drainage

basins to outfalls. Performed regulatory required activities, as well as laboratory data management and review. These activities include compiling and interpreting lab data and preparing reports.

Waste Management, Inc., Storm Water Monitoring and Reporting (2009), Waste Management (WMO) of Oregon Facility, Portland, OR. Project Director responsible for final document review for the execution of monthly wastewater treatment and storm water monitoring events at the Waste Management of Oregon facility in Portland, OR, consistent with the site's Wastewater Discharge Permit, NPDES permit, and SWPCP. Monthly events included preventative maintenance inspections of the facility and inspecting all on-site storage tanks, visual monitoring of storm water outfalls, and collecting wastewater discharge samples. Coordinated and performed storm water monitoring events consistent with the site's SWPCP. Collected storm water samples from site outfalls. Coordinated and performed a dye test to determine storm water flow from the site's drainage basins to outfalls. Performed regulatory required activities, as well as laboratory data management and review. These activities include compiling and interpreting lab data and preparing reports.

Waste Management, Inc., Storm Water Monitoring and Reporting (2010), Washington County Operations, Portland, OR. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the performance of monthly wastewater treatment and storm water monitoring events at the Washington County Operations facility in Portland, OR. The project was performed consistent with the site's Wastewater Discharge Permit, NPDES permit, and SWPCP. Monthly events included preventative maintenance inspections of the facility and the inspection of all on-site storage tanks, visual monitoring of storm water outfalls, and collecting wastewater discharge samples. Regulatory required activities, as well as laboratory data management and review activities included compiling and interpreting lab data and preparing reports.

Waste Management, Inc., Storm Water Monitoring and Reporting (2010), Waste Management of Oregon (WMO) Container Shop, Portland, OR. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the execution of storm water monitoring and reporting at the Waste Management of Oregon's Portland Container Shop (formerly Wastech) in Portland, OR. Tasks included performing monthly storm water discharge monitoring and facility inspections, collecting storm water discharge samples, data management and review, and preparing annual reports.

Waste Management, Inc., Storm Water Monitoring and Reporting (2010), Sandy Transfer Station, Sandy, OR. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the execution of monthly wastewater treatment and storm water monitoring events at the Sandy Transfer Station in Sandy, OR, consistent with the site's Wastewater Discharge Permit, NPDES permit, and SWPCP. Monthly events included preventative maintenance inspections of the facility and inspecting all on-site storage tanks, visual monitoring of storm water outfalls, and collecting wastewater discharge samples. Coordinated and performed storm water monitoring events consistent with the site's SWPCP. Collected storm water samples from site outfalls. Coordinated and performed a dye test to determine storm water flow from the site's drainage basins to outfalls. Performed regulatory required activities, as well as laboratory data management and review. These activities include compiling and interpreting lab data and preparing reports.

Waste Management, Inc., Storm Water Monitoring and Reporting (2010), Waste Management of Oregon (WMO) Facility, Portland, OR. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the execution of industrial wastewater monitoring and reporting at the Waste Management of Oregon (WMO) facility in Portland, OR. Tasks included performing quarterly wastewater sampling and reporting, monthly storm water discharge monitoring and facility inspections, collecting storm water discharge samples, data management and review, and preparing annual reports.

Waste Management, Inc., Storm Water Pollution Control (SWPC) Plan Update, Wastech Facility, Portland, OR. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the development of a storm water pollution control (SWPC) plan update for the Wastech facility in Portland, OR.

Waste Management, Inc., Storm Water Pollution Prevention (SWPP) Plan Site Map Update, Maintenance and Hauling Facility, Coeur d'Alene, ID. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the development of a storm water pollution prevention (SWPP) plan and site map update for the WMI maintenance and hauling facility in Coeur d'Alene, ID.

Waste Management, Inc., Storm Water Pollution Prevention (SWPP) Plan Site Map Update, Maintenance and Hauling Facility, Sandpoint, ID. Project Director responsible for technical guidance, project quality assurance (QA) and final document review for the development of a storm water pollution prevention (SWPP) plan for the WMI maintenance and hauling facility in Sandpoint, ID.