

100783

ORIGINAL
(Red)

ATTACHMENT B

RESUMES

AR305314

ORIGINAL
(Red)

BERNARD F. LANGAN, P. E.
President

**Geotechnical Engineering
Quality Assurance
Environmental/Hazardous Waste Engineering**

EDUCATION

BSCE University of Detroit 1962
MSCE Purdue University 1964

PROFESSIONAL REGISTRATIONS

Registered Professional Engineer in NJ, NY, FL,
and many other states.
Registered Professional Planner in New Jersey.

YEARS WITH LANGAN 25

SUMMARY QUALIFICATIONS

Mr. Langan has over 26 years experience as an consultant on the planning and design of major waterfront projects throughout the East Coast. Mr. Langan has led Langan in its master planning and design for Newport City, Colgate-Palmolive, Greenville Yards, Harsimus Cove, Waterside Plaza and Liberty Harbor North projects along the Hudson River Waterfront in New Jersey. The firm has received many competitive awards for Engineering Excellence related to innovative foundation systems. Mr. Langan was cited by Engineering News Record at their Annual Award Banquet for unique foundation systems design. Mr. Langan presently oversees the professional consulting work of Langan Engineering and Environmental Services and serves as the Principal-in-Charge of many of its major projects. Representative projects which best summarize Mr. Langan's pertinent experience are:

REVELANT EXPERIENCE

Halby Chemical Superfund Site, Wilmington, New Castle, Delaware - Principal-In-Charge. Langan has been contracted to provide engineering, design, and construction over-site services. Pre-design studies, treatability studies and design services were detailed in the Work Plan submitted to EPA Region III.

Laurel Park Landfill Superfund Site, Naugatuck, Connecticut - Principal-In-Charge for Geotechnical, hydrogeologic and environmental engineering for the final design RCRA closure of this superfund site including drawings and specifications.

Public Services Electric and Gas Company (Distribution), Jersey City, New Jersey - Studied conceptual alignments for 6,000 l.f. of underground electric distribution system CADD mapped existing and proposed underground utilities, prepared environmental audit, field sampling and environmental testing of existing soils and prepared construction documents including a worker's health and safety plan and soil remediation plan. Provided Health and Safety Officer to monitor construction, field screen excavated soils and coordinate disposal of excess soils.

Public Service Electric and Gas Company (Transmission), Jersey City, New Jersey - Developed and studied potential routes for three 8" underground pipe-type cables to connect two substations approximately one mile apart. Also prepared an environmental audit for the routes followed by field sampling, laboratory analysis and reporting of findings relative to disposition of excavated soils. Upon selection of route CADD mapped existing above ground and subsurface utilities and structures along the route. There were three micro tunneling crossings under Conrail and PATH tracks. Work included obtaining approvals from Jersey City, Conrail, New Jersey Turnpike, and Port Authority of New York and New Jersey.

AR305315

Original
(filed)

BERNARD F. LANGAN, P. E.

Greenville Yards, Jersey City, New Jersey - Directed the development of a comprehensive land use study and master plan for Greenville Yards, a 172 acre parcel on the southern Jersey City waterfront. The project included the review of all existing and available utilities and infrastructure including sanitary and storm sewers, gas and electric service and roadway access and capacity for proposed development scenarios.

Roosevelt Island Seawall and Esplanade, New York, NY - Principal-in-charge for conducting subsurface investigation, geotechnical engineering, surveying, site engineering and preparing working drawings for 4000 lf of new seawall and esplanade along the southern tip of Roosevelt Island. The project also includes the demolition design of the old City Hospital structures and the preliminary site design for a new Roosevelt Memorial to be developed at the Island's tip.

Colgate-Palmolive Waterfront Redevelopment, Jersey City, NJ - A mixed-use redevelopment of 40 acres on the Jersey City Waterfront (18 acres upland). Evaluated and designed solutions for aging infrastructure and bulkheads. Unique solution proposed to combine several outfalls into a single manifold along the water's edge. Manifold also serves as part of the bulkhead and provides support for walkway above.

Newport City, Jersey City, NJ - The conceptual planning and initial feasibility and impact studies for redeveloping the 200 acre northern waterfront site by private enterprise were done by Langan and by Mr. Langan. continued engineering and planning consulting services are being provided for the proposed \$2 billion Urban center as it develops with a team of other specialized consultants. Preliminary Geotechnical Studies for proposed high-rise building foundations have been completed. Unique solutions have been proposed for rehabilitation of abandoned wharves, and conversion of railroad viaducts into automobile use to minimize traffic congestion.

Liberty Harbor North, Jersey City, New Jersey - Directed the engineering studies and site design necessary for 750 dwelling unit townhouse development for the 25 acre first phase of this 70 acre waterfront site. Studies included an EIS, on environmental assessment of existing fill soils and groundwater, a geotechnical study of site soils and development of soil stabilization measures, engineering design of site layout, grading, drainage, sewer and water supply.

Harsimus Cove, Jersey City, New Jersey - Directed the engineering studies and conceptual plans through construction plans and specifications for infrastructure improvements for 509 acre mixed use waterfront development.

PUBLICATIONS

"Shallow Foundations for Tall Structures in Florida" co-authored with Dennis J. Leary, Journal of the Geotechnical Engineering Division, ASCE, Vol. 108, No. GT3, March 1982.

"Hydraulic Fills as a Method of Land Reclamation," presented to ASCE/AEG Symposium, Geologic and Geotechnical Aspects of Land Reclamation, May 1979.

WILLIAM F. MERCURIO, P.E.
Vice President

Environmental/Hazardous Waste Engineering
Civil/Geotechnical Engineering

EDUCATION

Polytechnic Institute of Brooklyn, B.S. in Civil Engineering
Polytechnic Institute of Brooklyn, M.S. in Civil Engineering
Additional Adv. Courses - Construction Mgt. and Earthquake Engineering

PROFESSIONAL REGISTRATION/CERTIFICATIONS

Licensed Professional Engineer in NY, NJ, CT, MN
Rail Operations Contractor Safety Training
Hazardous Waste Site Training: OSHA 29 CFR 1910.120(c)

YEARS WITH LANGAN: 7

SUMMARY QUALIFICATIONS

Mr. Mercurio has 27 years of experience in civil, geotechnical and environmental/hazardous waste engineering on projects throughout the United States, Mexico, Canada, Europe and the Far East. He has lectured extensively and has served as Adjunct Professor of Civil Engineering at Polytechnic Institute of New York. His specialties include slurry wall engineering, pile and sheet pile design, earth pressures, dam engineering, soil dynamics, landfill design, remedial investigations/feasibility studies, environmental evaluations, capping and liner construction, remediation of leaking underground storage tank sites, investigation/design/remediation of hazardous waste sites.

Mr. Mercurio is currently managing an investigation and design at two CERCLA sites, Halby Chemical and Laurel Park Landfill, for the respective PRP Groups. His responsibilities includes liaison with the EPA and the management of subcontractors.

RELEVANT EXPERIENCE

Halby Chemical Superfund Site, Wilmington, New Castle, Delaware - Langan has been contracted to provide engineering, design, and construction over-site services. Pre-design studies, treatability studies and design services were detailed in the Work Plan submitted to EPA Region III.

Laurel Park Landfill Superfund Site, Naugatuck, Connecticut - Geotechnical, hydrogeologic and environmental engineering for the final design RCRA closure of this superfund site including drawings and specifications.

L&D Landfill Superfund Site, Mt. Laurel, New Jersey - Langan is current providing landfill cap closure evaluation and construction oversight. Previous work scopes included detailed review and comments of NJDEPE's contractor for the RI/FS for our client Waste Management of New Jersey.

Beacon Heights Superfund Site, Beacon Falls, Connecticut - Langan was contracted by Uniroyal Chemical Co. to provide engineering and design technical oversight for a 38 acre landfill. Cap, leachate collection, gas venting and treatment designs were key work elements provided by Langan.

Berkley Landfill, Berkley, Massachusetts - Performed RI/FS for a 12 acre landfill. Based on a thorough hydrogeologic understanding a slurry wall was deleted from the initial concept at a significant cost savings.

AR305317

WILLIAM F. MERCURIO, P.E.

ORIGINAL

Helen Kramer Landfill Superfund Site, Mantua, New Jersey - Provided cap and slurry wall engineering, design and treatability studies. Work products included design drawings and specifications.

Modern Landfill Superfund Site, York, Pennsylvania - Clay borrow investigation, engineering evaluation, specification preparation and field control for placement of final cap to meet RCRA requirements for the Phase I capping 15 acres.

Hunt Road Landfill, Amesbury, Massachusetts - Comprehensive site assessment (RI/FS) including development of geohydrologic information, identification of potential pathways, evaluation of leachate migration, identification of potential receptors, and impact on receptors and providing engineering recommendations for remedial site improvements.

Crane Plant Site, Roseland, New Jersey - ECRA submittal and final cleanup recommendation to remove TCE from vadose zone using soil gas venting.

New York Department of General Services - Tank Rehabilitation Program in the Five Boroughs of New York - In excess of 20 Department of Sanitation facilities are being audited to determine the number of tanks at each facility. Upgrade recommendations will be made and undertaken leaving each facility with a record of what work has been done and an Operations and Maintenance manual for the future.

Manhattan General Mail Facility Underground Storage Tanks, New York, New York -Langan has provided environmental consulting services at the construction site of the US Postal Services Manhattan General Mail Facility. The site encompasses an entire midtown Manhattan block. Twenty-five years ago the residential, commercial and industrial buildings were demolished and the area was used for truck parking. Excavation for the new facility progressed under the direction of Langan to coordinate environmental activities. Almost 50 underground tanks ranging in size from 275 to 7,000 gallons were uncovered. The product was removed and the tanks were cleaned and then scraped.

N.J. Transit, Various Locations, New Jersey - Managing a status review and compliance strategy for 49 tanks at 10 locations, including specifications for spill and overflow protection and leak detection.

American Cyanamid, Linden, New Jersey - Langan is providing environmental and engineering services for the in-place abandonment of a heating fuel vault registered as an underground storage tank. Services have included soil sampling, interior inspection and preparation of a report according to Discharge Investigation and Corrective Action Report protocol.

Underground Storage Tanks, Various Locations - Geotechnical, geohydrological studies and remedial designs, several to satisfy ECRA.

Duro-Test, Clifton, New Jersey - Sampling and cleanup of soil and building facilities including underground storage tank removal under the ECRA program.

PROFESSIONAL AFFILIATIONS

National Water Well Association
International Geotextile Society
North American Geosynthetics Society

cercla\mercurio

AR305318

ORIGINAL
(file)

GERALD J. ZAMBRELLA
Associate

**Project Management
Environmental Assessments
Compliance Audits
Hazardous Waste Management
Underground Tank Management**

EDUCATION

St. John's University - M.B.A. Marketing Management
St. John's University - B.S. Biology/Chemistry
Rutgers University - Graduate studies in Environmental Science

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Underground Storage Tank Certification - New Jersey
National Registry of Environmental Professionals -
Certified Environmental Auditor
AHERA Asbestos Inspector
Rail Operations Contractor Safety Training
Hazardous Waste Site Training: OSHA 29 CFR 1910.120(c)

YEARS WITH LANGAN: 6

SUMMARY QUALIFICATIONS

Mr. Zambrella has over 20 years of diversified and progressive environmental and hazardous waste experience. His specialties include industrial and hazardous waste site investigation; environmental assessment and compliance audits; underground storage tank investigation/remediation pursuant to Federal and State programs.

Mr. Zambrella has coordinated and managed numerous hazardous site investigations and environmental audits for private sector clients. He has managed several major RI/FS studies and has designed and managed corrective action programs associated with leaking underground storage tanks. As a former member of the U.S. EPA Region II Technical Assistance Team, Mr. Zambrella responded to numerous incidents involving releases of oils and hazardous substances to the environment. Mr. Zambrella has performed and coordinated all types of environmental sampling and analytical activities in accordance with stringent USEPA and applicable state guidelines regarding sampling documentation, decontamination and QA/QC protocols.

Mr. Zambrella managed the New Jersey Transit Term Environmental contract for Langan. The contract included multiple task orders involving performance of Preliminary Site Assessments; Underground Storage Tank Investigations; preparation of Remedial Investigation Work Plans pursuant to regulatory agency decrees; implementation of site investigation, sampling and remedial activities at numerous rail yards and bus garages throughout the NJ Transit network. Mr. Zambrella functioned as the primary liaison with NJ Transit for this contract and held this position of responsibility on over 65 task assignments for NJ Transit.

RELEVANT EXPERIENCE

Hopewell Landfill RI/FS, York, Pennsylvania for the York County Solid Waste and Refuse Authority - RI/FS oversight responsibility of this NPL site with a volatile organic ground water contamination problem. Functioned as liaison, on behalf of YCSWRA, at all meetings and negotiations with USEPA Region 3.

AR305319

GERALD J. ZAMBRELLA

ORIGINAL
(Red)

Tinkhams Garage RI/FS, Londonderry, New Hampshire - Implementation of soil and groundwater sampling program on behalf of private responsible parties at this NPL site.

Naval Facilities Engineering Command (Northern Division), Philadelphia, Pennsylvania - Soil, ground water and asbestos sampling program to assess pollutant migration and evaluate environmental risks at the Philadelphia Naval Shipyard.

Kentucky Avenue Well Field, Horseheads, New York for U.S. EPA - Preliminary site assessment and residential well sampling to assess volatile organic contamination of private water supply wells.

Kearny Drum Dumps, Kearny, New Jersey for U.S. EPA - Oversight of excavation and removal of over 500 drums of hazardous wastes from 4 individual dump sites.

Duane Marine, Perth Amboy, New Jersey for U.S. EPA - Assessment of wastes at a fire ravaged treatment/storage/disposal facility and monitoring the Responsible Party Cleanup.

Waldick Aerospace Devices, Sea Girt, New Jersey for U.S. EPA - Initial site investigation and sampling of drums and vats containing cyanide wastes.

Scientific Chemical Processing, Newark, New Jersey for U.S. EPA - Assessment of site containing over 4,000 drums, tanks, and tankers containing hazardous waste and monitoring the Responsible Party Cleanup.

Lincoln Avenue, Bohemia, New York for U.S. EPA - Oversight of hook-up to public water of residences whose private wells were adversely impacted by volatile organic contamination.

N.J. Transit, Various Locations - Project Director for General Environmental Consultant Term Contract. Preliminary assessments and site investigations have been conducted at numerous properties which NJ Transit is considering for purchase. Comprehensive remedial investigation work plans have also been developed and are currently being implemented at several major railyards and bus garages operated by NJ Transit. Subsurface investigations and contaminant assessments have been conducted at five substations associated with electrified rail service for various rail lines.

Midlantic National Bank, Confidential Property, New Jersey - Directed soil boring investigation around perimeter of an inactive 4,000 gallon underground fuel oil tank to assess potential adverse impact to surrounding soils prior to Midlantic repossessing the property via foreclosure.

Penick Corporation, Newark, New Jersey - Design and implementation of ground water and soil cleanup plans for this ECRA regulated site.

Best Foods, Ridgefield, New Jersey - Developed and managed hydrogeological assessment to evaluate underground diesel fuel and gasoline storage tank discharges. Prepared a NJDEPE Discharge, Investigation and Corrective Action Report (DICAR) to document investigation activities and oversaw subsequent rounds of monitoring well sampling.

Westinghouse Electric, Hillside, New Jersey - Implemented ECRA Soil Sampling Plan to delineate extent of identified PCB contamination at this manufacturing facility.

J.L. Prescott Company, Passaic, New Jersey - Complete ECRA investigation at this detergent manufacturer's Passaic and Lincoln Park, New Jersey facilities.

cercla.zambrella

AR305320

CAROLE SFORZA, P.G.

Project Manager

Geology/Hydrogeology, Chemistry
UST Management
Preliminary Assessment and Site Investigation
Remedial Investigation/Remedial Action
Hazardous Waste Management

EDUCATION

Rutgers University: M.S. Geology (pending thesis completion)

Rutgers University: B.A. Geology

Rutgers University: B.A. Chemistry

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Underground Storage Tank Certification Subsurface Evaluator: New Jersey

Licensed Professional Geologist: Pennsylvania, Tennessee, Kentucky

Hazardous Waste Site and Supervisor Training: OSHA 29 CFR 1910.120 (c)

Rail Operations Contractor Safety Training

YEARS WITH LANGAN: 9**SUMMARY QUALIFICATIONS**

Ms. Sforza has thirteen years of experience in the environmental and ground-water consulting services. Her specialties include management of geophysical investigations, site assessments, and remediation of hazardous waste sites and complex industrial facilities under the New Jersey ISRA, UST, and NJPDES programs and the USEPA Superfund program. She is an experienced project manager and has supervised the development and implementation of numerous sampling and cleanup plans. Ms. Sforza has also performed numerous environmental liability audits for financial institutions.

Ms. Sforza has been a presenter at the ECRA-Update 1989 and 1990 Seminars co-sponsored by Langan NEI, and Hannoeh Weisman.

RELEVANT EXPERIENCE

Halby Chemical, Wilmington, Delaware (Superfund) - Prepared and implemented the Remedial Design Work Plan for Operable Unit 1 of the Halby Chemical Site, including a treatability study for soils stabilization. The selected remedy involves the excavation of the top 6 inches of contaminated soil in the process plant area followed by stabilization and replacement. In addition, approximately 40 above ground storage tanks will be removed.

Laurel Park Landfill, Naugatuck, Connecticut (Superfund) - evaluation and determination of the local geology for possible ground water contamination pathways at the landfill.

Quanta Resources, Edgewater, New Jersey (Superfund) - investigation for cost-effective waste treatment technologies and transport/disposal methods for PCB oils and sludges and wastewater for a tank farm.

Berkley Landfill, Berkley, Massachusetts - completed a Comprehensive Site Assessment for the Massachusetts DEP based upon existing data. Off-site sources and extent of releases from the landfill were investigated. Plans were prepared outlining plume delineation for specific parameters in a three dimensional context over time.

Sussex County Complex, Frankford and Hampton Townships, New Jersey (MOA, UST, Landfill Disruption) - Prepared preliminary assessments; closure plans for 16 USTs; landfill disruption permit application and remediation work plan for removal of debris piles; and MOA application and remedial action work plan for remediation of fire training pits. Remedial action in progress.

AR305321

CAROLE SFORZA, P.G.

Norton-Chemplast, Wayne, New Jersey (ISRA, UST, NJPDES) - managed the soil and ground water investigation of the teflon product manufacturing facility. Soil remediation, underground storage tank removal, source removal, and ground water plume delineation completed. Aquifer testing and recommendations for groundwater remediation in progress.

Norton-Chemplast, Hawthorne, New Jersey (ECRA, UST) - managed the soil and ground water investigation of the Nylon 6 casting facility. Soil remediation of former drum storage areas and ground water plume delineation completed. Received cleanup approval letter.

N.J. Transit, Various Locations - supervised and performed preliminary assessments and site investigations at existing bus and rail yard properties being considered for purchase as part of the General Environmental Contract.

Wallace & Tiernan - Pennwalt, Belleville, New Jersey (ISRA, UST) - managed the investigation of a 70 year old chlorinator manufacturing facility. Areas of environmental concern include fourteen past and present underground storage tanks, drum storage areas, and plating room blow-down. Tank removals and abandonment of nine tanks and soil remediation from various sources completed. Ground water plume delineation and aquifer testing completed.

Wallace & Tiernan - Pennwalt, Newark, New Jersey (ECRA, UST) - managed the soil and geophysical investigation of a former equipment storage yard and research laboratory. Delineated soil contamination, investigated magnetic anomalies in search of buried drums, located and removed drums and USTs. Received cleanup approval letter.

New York City Department of General Services - Tank Rehabilitation Program in the Five Boroughs of New York - in excess of 20 Department of Sanitation facilities were inspected to determine the number of tanks at each facility. Upgrade recommendations will be made and undertaken.

Bob's Home Service, Inc. (B.H.S., Inc.) Wright City, Missouri (RCRA) - preparation of RCRA Part B Permit Application for a hazardous waste disposal facility including the preparation of a corrective action plan.

Office of Nuclear Waste Isolation, Mississippi (ONWI) - geochemical evaluation of a potential nuclear waste repository site in the Richton Salt Dome including data collection and analyses to determine whether the geochemical conditions were suitable for the containment of high-level radioactive waste.

PUBLICATIONS AND/OR PRESENTATIONS

Sforza, C., 1989. "The ECRA Path"; ECRA Update 1989, Seminar presented by LESI, NEI, and Hannoeh Weisman, Ramada Renaissance, East Brunswick, New Jersey, 28 September 1989.

Sforza, C., 1990. "The ECRA Path"; ECRA Update 1990, Seminar presented by LESI, NEI, and Hannoeh Weisman, Raritan Center, Edison, New Jersey, 27 September 1990.

PROFESSIONAL AFFILIATIONS

National Water Well Society, Association of Ground Water Scientists and Engineers
Geological Society of America, Hydrogeology Division
Association of Engineering Geologists

cercla@sforza

ROBERT Y. KOTO, P.G.
Project Manager

**Geology/Hydrogeology
Site Assessments
Asbestos Investigations**

EDUCATION

Rutgers, The State University of New Jersey: M.S. Degree in Geology
California State University at Northridge: B.S. Degree in Geology

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Licensed Professional Geologist, State of Arkansas, Tennessee, Delaware, and Pennsylvania
Certified Environmental Auditor, National Registry of Environmental Professionals - CEA #678
New Jersey Underground Storage Tank Certification - G0000780
-AHERA Inspector/Investigator
Rail Operations Contractor Safety Training
New York City Subway Track Safety Training
Hazardous Waste Site and Supervisor Training, OSHA 29 CFR 1910.120(e) certification

YEARS WITH LANGAN 8

SUMMARY QUALIFICATIONS

Mr. Koto has over ten years of environmental, hazardous waste, geological, and groundwater experience. His specialties include managing, developing and implementing remedial investigations, compliance reviews, hydrogeologic and geophysical evaluations, due diligence environmental site assessments and hazardous site investigations. He has strong working knowledge of environmental regulations at the federal, state and local levels. Mr. Koto is also the Corporate Health and Safety Coordinator responsible for over 50 personnel and is in charge of administering New Jersey Transit's Rail Operations Contractor Safety Orientation for Langan employees and its subcontractors. For the past three years, Mr. Koto has served as Project Manager for preliminary assessments, site investigations, groundwater investigations, and remedial investigation work plans at New Jersey Transit railyard properties.

REPRESENTATIVE PROJECTS

Halby Chemical Site, Wilmington, Delaware - Project geologist and Health and Safety Officer for Remedial Investigation of OU-1.

WDI Landfill, Howell, New Jersey - Project geologist for subsurface geotechnical investigation of borrow area to determine soil characteristics for possible landfill cover. Also supervised drilling operations on the landfill to determine subsurface conditions.

Uniroyal, Naugatuck, Connecticut - Evaluation and determination of the local geology for possible ground water contamination pathways at the Superfund landfill. Development of Health and Safety Plan (HASP) for design phase.

Landfill and Development, Co., Mount Holly, New Jersey - Verification of final cover requirements for Superfund Landfill. Development of site specific health and safety plan.

HMDC, North Arlington, New Jersey - Placement of soil gas probes for health and safety monitoring of maintenance garage located on landfill.

Vornado, Hackensack, New Jersey - Designed and implemented soil gas survey at former lagoon to determine the types and concentrations of potential underlying gases.

AR305323

ROBERT Y. KOTO

McKee Bros., Inc., Mahwah, New Jersey - Evaluated underground storage tank discharge under New Jersey's BUST program. Prepared DICAR report including hydrogeologic aquifer analysis and a ground water contaminant evaluation.

New Jersey Bell UGST, evaluation at various sites, New Jersey - Investigations to evaluate discharges from former UGSTs which have been removed as part of on going UGST management program. Supervised soil borings, well installation, soil and groundwater sampling; writing of Discharge Investigation and Corrective Action Reports.

Major Oil Company, Several Sites, New Jersey - ECRA investigations of soil and ground water at tank terminals and storage facilities. Prepared sampling plans and reports detailing the types, extent and characteristics of the soil and ground water contamination. Management of ex-situ bioremediation of petroleum contaminated soils.

N.J. Transit, Various Locations - Supervised and performed preliminary assessments and site investigations at existing bus and rail yard properties being considered for purchase as part of the General Environmental Contract.

Public Service Electric and Gas Co., Jersey City, New Jersey - Prepared an Environmental Audit along a 7,000' route proposed for underground electric distribution manhole and conduit system. Performed field investigation with soil sampling and testing to develop worker's Health and Safety Plan and soil remediation plan. Coordinated disposition of excess trench spoils during construction.

Duro-Test Corporation, Clifton, New Jersey - Supervised the removal of two 5,000-gallon capacity underground xylene storage tanks, prepared a ground water monitoring report and Cleanup Plan addressing areas of environmental concern in accordance with ECRA guidelines.

Campbell Soup Company, Camden, New Jersey - ECRA case involving the delineation of surface and subsurface contamination at a former canning facility.

Witco Chemical, Clark, New Jersey - ECRA investigation involving decommissioning of facility. Prepared and implemented SES, sampling plan and report detailing soil and ground water contamination.

ADDITIONAL TRAINING AND SHORT COURSES

Geology and Geohydrology of New Jersey: Rutgers University
Design and Execution of Sampling and Analysis Plan: NJDEP/EPA/NJWPCA
Ground Water Monitoring and Sampling: AGWSE
Ground Water Pollution and Hydrology: The Princeton Associates Course
HELP Modeling Workshop for Landfill Design Evaluation: University of Wisconsin-Milwaukee
1991 Environmental Site Assessments Case Studies and Strategies: The Conference: NWWA

PROFESSIONAL AFFILIATIONS

Geological Society of America - Member
Geological Association of New Jersey - Member
National Water Well Association (NWWA), Association of Ground Water Scientists and Engineers - Member
Sigma Xi - Associate Member

cerela\koto

AR305324

EDWARD J. ZOFCHAK, P.G.
Assistant Project Geologist

Geology
Hydrogeology

EDUCATION

Rutgers, The State University of New Jersey: B.A. Geology
Rutgers, Graduate Studies in Geology

PROFESSIONAL REGISTRATION/CERTIFICATION

Licensed Professional Geologist State of Pennsylvania
New Jersey Underground Storage Tank Certification
Rail Operations Contractor Safety Training
Hazardous Waste Site and Supervisor Training, OSHA 29 CFR 1910.120 (c)
Radiation Safety and Use of Nuclear Densimeter

YEARS WITH LANGAN: 8

SUMMARY QUALIFICATIONS

Mr. Zofchak has over eleven years of experience as a geologist, including eight in the environmental field. His experience includes environmental and geotechnical soil sampling and identification; bedrock coring and analysis (included oriented bedrock coring); environmental site assessments; design and installation of groundwater monitoring wells; soil and groundwater sample collection for analysis. He has supervised numerous UGST removals and ECRA (now ISRA) cases involving soil and groundwater delineation and remediation. Mr. Zofchak has also been involved in subsurface investigations on NPL Superfund Sites.

Mr. Zofchak has also served as field engineer on a number of geotechnical jobs. He has worked and is familiar with a variety of engineering tools and techniques including rock coring, inclinometers, nuclear densimeters, sediment plates, track-mounted air probe and general surveying.

RELEVANT EXPERIENCE

Laurel Park Superfund Landfill, Naugatuck, CT - Project field geologist in charge of an extensive geologic-hydrogeologic field investigation. The investigation and definition of the complex hydrogeologic interaction between the landfill, a shallow aquifer, a confining glacial till and the underlying bedrock aquifer, lead to significant changes in the ROD.

Campbell Soup Company, Camden, New Jersey - ECRA plant closure and planned land transfer. Supervision of UGST removal and soil cleanup at tank locations, monitoring well installation; ground water monitoring for NJPDES compliance.

Curtiss Wright Flight Systems, Fairfield, New Jersey - RCRA tank closure of operating aerospace flight systems facility. Supervised removal of UGST and contaminated soil; installation of monitoring wells and environmental borings for ground water monitoring for NJPDES compliance.

Thatcher Plastics Packaging, Hawthorne, New Jersey - ECRA case involving supervising removal of leaking underground gasoline tank and associated soil, PCB-contaminated soil surrounding several transformers, sampling plan implementation and backfilling operations. Installation and subsequent sampling of monitoring wells.

EDWARD J. ZOFCHAK

AR305325

CONFIDENTIAL
(b)(5)

EDWARD J. ZOFCHAK

New Jersey Bell UGST, evaluation at various sites, New Jersey - investigations to evaluate discharges from former UGSTs which have been removed as part of on going UGST management program. Supervised soil borings, well installation, soil and groundwater sampling; writing of Discharge Investigation and Corrective Action Reports.

Trenton Office Complex EDA, Trenton, New Jersey - Geotechnical borings for proposed state office building. Environmental site assessment to delineate extent of contamination associated with a 10,000 gallon diesel fuel and 5,000 gallon home heating oil tanks on the site, involving environmental soil borings and sampling.

JCP&L, Point Pleasant Substation, Point Pleasant, New Jersey - Underground storage tank investigation; conducted magnetometer survey for buried well casings in the former municipal well field, soil boring and well installation and sampling program involving leaking gasoline tank.

American Cyanamid, Linden, New Jersey - Environmental assessment including environmental soil borings and soil sampling around former No. 4 fuel oil vault at Linden warehouse. Supervised excavation and removal of contaminated soils from around vault perimeter.

American Cyanamid, World Corporate Headquarters Complex, Wayne, New Jersey - Tank Closure. Supervised and documented the decommissioning, excavation, removal and scrapping, completed post-excavation sampling of two 20,000 gallon and one 5,000 gallon No. 2 heating oil tanks formerly used to operate the Complex's HVAC systems. Also supervised and sampled the excavation of a 10,000 gallon unleaded gasoline tank formerly used to fuel corporate vehicles.

AT&T - Western Union Mahwah Facility, Mahwah, New Jersey - Environmental compliance assessment to delineate potential contamination from two 10,000 gallon heating oil tanks and one 500 gallon waste oil tanks, through installation of four ground water monitoring wells and subsequent ground water sampling. Conducted general inspection and bulk sampling for asbestos-containing building materials.

Chemplast, Inc., Hawthorne, New Jersey - ECRA regulated ownership transfer and site remediation. Supervised excavation and collected post-excavation samples for contaminated soils surrounding 1.4 acre facility. Collection of soil samples from below sub floor of interior building production area pit.

Department of Public Works Garage, Harrington Park, New Jersey - Tank Closure and environmental site assessment. Witnessed decommissioning, excavation and removal of 1,000 gallon diesel, 1,000 and 2,000 gallon unleaded gasoline tanks formerly used to fuel Borough vehicles. Collected post excavation and waste classification soil samples.

Witco Corporation, Brainards Facility, Phillipsburg, New Jersey - Project geologist for soil and groundwater investigation of an active chemical manufacturing facility located in karst terrain. Areas of concern include a former on-site landfill, infiltration lagoon and buried drum area.

ADDITIONAL TRAINING AND SHORT COURSES

Groundwater Monitoring Technology, Regulatory Developments and Field Practices
Hydrogeology of the Glacial Deposits of New Jersey: An Applied Field Course - Rutgers University, Cook College Office of Continuing Professional Education

cercla.zofchak

AR305326

CHARLES McCUSKER, P.G., C.H.M.M.

Senior Staff Geologist

Geology
Health & Safety

ORIGINAL
(Red)

EDUCATION

University of Southern Colorado: B.S., Geology

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Professional Geologist, State of Tennessee:
Registration No. TN2563
Certified Hazardous Materials Manager, No. 3907
NJDEP Certified UST Subsurface Investigator, No. 0013518
Troxler Nuclear Density Gauge Certified No. 23201
Rail Operations Contractor Safety Training
Hazardous Waste Site and Supervisor Training: OSHA 29 CFR 1910.120 (c)

YEARS WITH LANGAN 2

SUMMARY QUALIFICATIONS

Mr. McCusker has 9 years of experience in geotechnical engineering and hazardous waste site characterization on projects throughout the United States. His background includes forensic investigations of distressed homes throughout Southern California, contractor oversight on landfill, pipeline, dam, road, earthwork, and monitor well construction in New Jersey, New York and California, task leader on over 40 Superfund projects on the U.S. EPA, Environmental Response Team's Response Engineering and Analytical Contract. These projects included groundwater modeling, extent of contamination studies using XRF, field portable gas chromatography and TAGA tandem mass spectrometry. Performed field screening with immunoassay test kits, portable photoionization detectors, flame ionization detectors, and mercury vapor analyzers, contractor oversight during removal activities, monitor well and production well installation, design of production wells and vapor extraction systems, procurement of state-of-the-art hydrogeologic equipment for emergency response, soils, sediment, soil gas, air, drum, vat and tank sampling, computer applications for word processing, database management, modeling and geostatistical analysis.

RELEVANT EXPERIENCE

Drum Removal, Gibsonia, Pennsylvania, Witco Chemical - Provided contractor oversight during drum sampling; road, staging area and decontamination pad construction; drum staging; waste bulking; contaminated soil removal; and off-site transportation of waste.

Buried Drum Removal, Montville, New Jersey, Confidential Client - Provided contractor oversight during a Level B drum removal activities at a former pharmaceutical site. Assisted with the interpretation of the complex geologic setting.

Remedial Investigation, Dover, New Jersey, New Jersey Transit - Designed and implemented a soil sampling program to determine the nature, extent and magnitude of contamination. Over 100 soil samples were collected from areas of concern in this active railyard. Four monitoring wells were also installed and an assessment of the hydrogeologic system was performed.

Geophysical and Geochemical Assessment, Jefferson County, Colorado, U.S. EPA - Assessment Utilizing Surface, Electromagnetic, Downhole Gamma and Resistivity Geophysical Methods to Determine the Hydrogeologic Framework. Hydrochemical Interpretation Utilizing Trilinear and Schoeller Diagrams to Determine Which of Five Potentially Responsible Parties were Contributing to Contamination Emanating From Seeps Found On-Site.

AR305327

CHARLES McCUSKER

ORIGINAL
(Red)

Multimedia Sampling, Camilla, Georgia, U.S. EPA - Supervisor of a Large Scale Site Characterization Study on a 50-acre Former Wood Treating Facility. This Study Included the Assessment of Soil, Sediment, Surface Water and Groundwater Contamination with Dioxins/Furans, Creosote, Chromium, Copper and Arsenic.

Multimedia Sampling, Pensacola, Florida, U.S. EPA - Supervisor of a Large Scale Site Characterization Study on a 26-acre Former Wood Treating Facility. This Study Included the Assessment of Sludge, Soil, Groundwater, Ecology and Air Quality.

Assessment of PCB Contaminated Soil, Franklin Township, New Jersey, U.S. EPA - Composite Soil Sampling Was Conducted on a 38-acre Site to Determine Extent and Magnitude of Contamination.

Site Characterization, Los Lunas, New Mexico, U.S. EPA - Well Installation, Defined Water Table Flow Regiem, and Provided Data to Remove Site from the National Priority List.

Site Characterization, Carrollton, Kentucky, U.S. EPA - Soil Gas Survey Was Conducted to Define the Areal Extent of Trichloroethylene Contaminant Plumes, Soil Boring and Monitor Well Installation, Groundwater Modeling, Tandem Packer Bladder Pump Apparatus Used to Define the Vertical Extent of Contamination in Groundwater.

Emergency Response to Trichloroethylene Spill, Blackfeet Indian Reservation, Browning, Montana, U.S. EPA - Provided Contractor Oversight During Contaminated Soil Removal and Water Main Replacement, Designed and Supervised Construction of a Vapor Extraction System to Remediate Soil in Areas That Could Not Be Excavated.

Site Characterization, Columbia Falls, Montana, U.S. EPA - Conducted an Extent of Contamination Study on an Active Wood Treating Facility, the Assessment Involved Soil, Groundwater, Sludge, Product and Air Sampling, a Contaminated Soil Volume Estimate Was Made Using the Soil Data.

Soil Gas Survey, Upper Deerfield, New Jersey, U.S. EPA - A Soil Gas Survey Was Conducted on a Closed Municipal Landfill to Determine the Nature of Volatile Contaminants Present, an Isolation Flux Chamber Was Utilized to Determine Contaminant Emission Rates from the Landfill.

Soil Gas Survey, Egg Harbor Township, New Jersey, U.S. EPA - A Soil Gas Survey Was Conducted Around the Perimeter of an Unpermitted Hazardous Waste Landfill to Determine Off-Site Migration of Volatile Organic Compounds, Isolation Flux Chambers Were Utilized to Determine Contaminant Emission Rates from the Landfill.

PUBLICATIONS

"Aquifer Characterization Utilizing Geochemical, Isotopic and Geophysical Methods", 1994 National Proceedings of the Eighth Annual Conference of the Academy of Certified Hazardous Materials Managers, October 26, 1994. Lead Author, Presenter.

"Evaluation of an Immunoassay Soil Test Kit for Pentachlorophenol", 1993 National Technology Seminar, sponsored by USEPA Region V. Co-author.

"Groundwater Restoration for a Contaminated Water Supply Well Field in Kentucky", 1993 National Technology Seminar, sponsored by USEPA Region V. Co-author, presenter.

PAUL A. MCANDREW
Staff Engineer

Civil Engineering
Subsurface Investigation

CONFIDENTIAL
(6/80)

EDUCATION

Villanova University: B.S. Degree in Civil Engineering

REGISTRATIONS/CERTIFICATIONS

Association of Groundwater Scientists and Engineers
OSHA Site and Supervisor Training Certificate
New Jersey Transit Rail Safety Contractor Training
Fundamentals of Engineering (EIT) Certificate
Troxler Nuclear Densimeter Training Certificate

YEARS WITH LANGAN: 3

SUMMARY QUALIFICATIONS

Mr. McAndrew has worked on environmental investigations under New Jersey's ECRA and Underground Storage Tank (UST) programs, New York State's PBS program, and the Federal Superfund program. His experience includes supervising and performing soil borings, test pit inspections, soil and groundwater sampling, groundwater remediation, and underground tank excavation and removal. He has also performed site inspections and Environmental Audits, and has prepared feasibility studies, remedial action workplans, soil and groundwater sampling investigation reports, cost estimates and proposals.

RELEVANT EXPERIENCE

Halby Chemical Site, Wilmington, Delaware - Prepared a Focused Feasibility Study describing and evaluating potential remedial action alternatives for contaminated soils at a former chemical production and shipping facility.

New Jersey Bell UST, Monitoring and Remediation at Various Sites, New Jersey - Investigations to evaluate discharges from former USTs which have been removed as part of an ongoing UST Management Program. Supervised groundwater sampling and free product contaminated groundwater remediation activities; writing of Remedial Action Work Plan and groundwater investigation reports.

Clifton Dodge, Clifton, New Jersey - Phase 1 and 2 Environmental Site Assessments and subsurface investigation. Supervised soil borings, soil and groundwater sampling and UST removal; writing of Tank Closure and Site Assessment reports and soil and groundwater investigation reports.

NJ Transit, Various Locations, New Jersey - Performed preliminary assessments and site investigations at properties being considered for purchase as part of the General Environmental Contract.

Supervised and performed preliminary assessments and site investigations of USTs at existing bus facilities; writing of proposal for bringing existing USTs into regulatory compliance.

Supervised and performed sampling and evaluation of wastewater streams at existing bus facilities; writing of sampling reports.

Laurel Park Landfill, Naugatuck, Connecticut (Superfund) - Sampling of soil and groundwater at landfill. Sampling of sediment and evaluation for use as topsoil at the landfill. Supervised soil boring, bedrock coring and test pit excavation. Analysis of rock cores and aquifer test data and writing of sampling and evaluation report.

AR305329

ORIGINAL
(Red)

PAUL A. MCANDREW

DCH Investments, Inc., UST Excavation and Removal at Various Sites in New Jersey - Supervised excavation and removal of underground storage tanks at various automobile dealerships. Supervised post-excavation soil sampling; writing of cost proposals, tank closure reports, and site assessment reports.

Hudson-Bergen Light Rail System, Jersey City, New Jersey - Geotechnical investigation of proposed light rail route. Supervised soil borings and bedrock coring, collected soil and rock core samples.

Confidential Client, Newark, New Jersey (ECRA) - ECRA investigation of a 90 year old pharmaceutical manufacturing facility. Soil and groundwater investigations to evaluate impact of UGT discharges and on-site waste disposal. Supervised soil borings, well installation, soil and groundwater sampling.

L&D Landfill, Mount Holly, New Jersey (Superfund) - Investigation and evaluation of final landfill cap. Supervised soil borings and soil sample collection; writing of cost proposals and final cap evaluation report. Prepared cost and materials estimate for restoring final cap.

tanks\mcandrew

AR305330

LEAH CONROY
Staff Scientist

Site Assessments
Soil and Groundwater Investigations
Remedial Investigations
Compliance Assessments

EDUCATION

Rutgers University, Cook College, New Jersey
B.S. in Biological Sciences

PROFESSIONAL CERTIFICATIONS

Accredited AHERA Inspector #RWJ1604A
Troxler Nuclear Density Gauge Certified
Hazardous Waste Site Training, OSHA 26CFR, 1910.120(e) Certified
New Jersey Transit Rail Safety Contractor Training

YEARS WITH LANGAN 1

SUMMARY QUALIFICATIONS

Ms. Conroy's experience includes the performance of preliminary site assessments and investigations, soil sampling and analytical data interpretation, installation of groundwater monitoring wells, oversight of UST closure activities and report preparation. Ms. Conroy's experience also includes review of regulations, evaluation of compliance issues and contact with regulatory agencies (USEPA, NJDEP, NYDEC, CTDEP).

RELEVANT EXPERIENCE

Phase I Environmental Site Assessments - Conducted environmental assessments according to ASTM industry standards, and prepared reports for over 20 industrial, commercial and residential properties throughout New Jersey, New York, and Connecticut. Contacted USEPA, NJDEP, NYDEC, and CTDEP for information concerning such properties.

New Jersey Transit, Greenville Bus Garage, Jersey City, New Jersey - Prepared a Remedial Investigation Work Plan according to NJAC 7:06E Technical Requirements for Site Remediation, for the facility as required by a Memorandum of Agreement (MOA) issued by the NJDEP. The work plan included a detailed history, as well as a sampling plan designed to delineate subsurface soil and groundwater contamination at the property.

New Jersey Transit, South Amboy Substation, South Amboy, New Jersey - Performed a Preliminary Assessment and Site Investigation of the substation using relevant records and surface soil sampling to determine the presence or absence of contaminated areas.

ASPE, Inc., Montville Township, New Jersey - Conducted property assessment and prepared Preliminary Assessment Report for submission to NJDEP as required by the Industrial Site Recovery Act (ISRA). The Preliminary Assessment identified areas of concern and prescribed sampling for investigation of these areas.

Regency Motors, Montclair, New Jersey - Provided oversight for UST removal and conducted post-excavation soil sampling to determine if product from the UST had impacted the surrounding soils.

AR305331

ORIGINAL
(Red)

LEAH CONROY

Deptwood Center, Deptford, New Jersey - Performed review of consultant and regulatory issues in order to assess conditions at the property for a prospective buyer.

Clifton Dodge, Clifton, New Jersey - Provided oversight for UST removals and performed post excavation soil sampling. Evaluated analytical data to assess the environmental condition of surrounding soils and compliance with UST regulations.

New Jersey Transit, West Windsor, New Jersey - Performed site assessment of possible future NJ Transit property, which included a site inspection, review of property history and an environmental database search for the area.

New Jersey Transit, Dover Railyard, Dover, New Jersey - Provided oversight for the installation of groundwater monitoring wells and obtained soil samples to aid in delineation of subsurface contamination.

assess\conroy.n-2

AR305332