

Kevin Draganchuk, P.E., BCEE

President, CEA Engineers P.C.

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Professional Profile:

Kevin Draganchuk, P.E., BCEE is an Environmental Engineer with over 15 years of experience in stormwater management design and permitting, wastewater collection and treatment, pollution prevention, water quality protection, site remediation, and litigation support.

He is a regular expert witness in Clean Water Act, environmental negligence, and flooding cases for settlement negotiations, deposition, and trial in local, State, and Federal courts.

He is President and Principal Engineer of CEA Engineers, P.C., a New York Professional Corporation.

Areas of Expertise:

Construction and industrial stormwater management evaluation, design, and permitting

Wastewater collection and treatment evaluation, design, and operations and maintenance

Sanitary Sewer Overflow (SSO) cause analysis and remediation

Pollutant discharge quantification and environmental impacts

Litigation support

Environmental advocacy support

Site remediation, including testing, monitoring, maintenance, and oversight

Watershed protection and flooding

Qualifications:

Education:

Rensselaer Polytechnic Institute Bachelor of Science, Magna Cum Laude, 2004, Chemical Engineering

Professional Licenses, Certifications and Organizations

Registered Professional Engineer

- New York
- New Jersey
- Florida

American Academy of Environmental Engineers & Scientists

- Board Certified Environmental Engineer (BCEE) – Water Supply and Wastewater Specialty

Water Environment Federation – Collection Systems Committee Member – Technical Practice Group

New York Water Environment Association - Member

National Association of Sewer Service Companies (NASSCO) Pipeline/Manhole/Lateral Assessment Certification Program (PACP/MACP/LACP)

24-Hour HAZWOPER Certified



RELEVANT EXPERIENCE & REPRESENTATIVE PROJECTS

Wastewater Treatment and Collection Systems:

Litigation Support, Chesapeake Bay Foundation, et al, v. County of Henrico

Provided technical engineering litigation support for Clean Water Act (CWA) violations due to unpermitted sanitary sewer overflow (SSO) discharges from Henrico's sanitary sewer system, unpermitted wastewater treatment system bypasses (Bypasses), discharge of partially treated wastewater from Henrico's Water Reclamation Facility (WRF), and WRF NPDES permit effluent limitation exceedances for total suspended solids (TSS) and biological oxygen demand (BOD). Analyzed the impact of inflow and infiltration (I&I) on Henrico's sanitary sewer system, WRF, SSOs, Bypasses, and NPDES permit effluent limitation exceedances. Evaluated the sanitary sewer system's Operation and Maintenance (O&M) plan, Sewer System Evaluation Survey (SSES) Reports, SSO history, infrastructure attributes, work orders, capital improvement plans, and associated documents. Evaluated WRF Process Operation Reports, O&M manuals, design reports, and Bypass event reports. Analyzed Henrico's long-term Facilities Plan and associated capacity analysis of the sanitary sewer system and WRF. Prepared an Expert Report and Rebuttal Report within the constraints of a condensed, approximately 3-months long court schedule evaluating the causes of SSOs, Bypasses, and NPDES permit effluent limitation exceedances and recommended remedies to reduce and eliminate them. Developed rebuttal responses to Defendant's Expert Report. Provided testimony at deposition. Provided technical settlement support in addition to litigation support that resulted in a settlement agreement.

Litigation Support, Suncoast Waterkeeper, et al., v. City of Gulfport

Provided technical engineering litigation support for CWA violations due to unpermitted SSO discharges from Gulfport's collection system. Analyzed the collection system's O&M plan, SSES Report, pipe condition assessment reports, capital improvement plans, and associated documents. Prepared an Expert Report and Rebuttal Report evaluating the causes of SSOs, recommended remedies to reduce and eliminate SSOs, a cost estimate for the recommended remedy, and rebuttal responses to Defendant's Expert Reports. Prepared affidavits in support of motions for summary judgment and in opposition to Gulfport's motion to dismiss, the latter of which included analyses regarding the impact of rainfall patterns, magnitudes, and intensities on I&I, the effect of completed rehabilitation work on reducing I&I, and the potential for sewage exfiltration into Gulfport's storm drain system. Provided testimony at deposition. Evaluated reports, designs, and conducted additional analyses as required under the Stipulated Order achieved in settlement.

Litigation Support, Save the Sound v. Westchester County, et al.

Analyzed spill reports, WRF discharge monitoring reports, daily operational data, inspection reports, and non-compliance reports to determine the influence of I&I on SSOs and NPDES permit violations at several county owned WRFs. Determined which wet weather SSOs impacted surface waters and which impacted Municipal Separate Storm Sewers (MS4s). Prepared a technical report in support of a citizen's suit under the CWA, which resulted in a Stipulated Order (SO) requiring SSESs, development of Capacity, Management, Operation, and Maintenance (CMOM) plans, and sewer system rehabilitation within the County-owned collection system and several municipally owned and operated tributary sanitary sewer systems. Continues to provide settlement negotiation assistance, technical support, SO compliance oversight, and review of the SSES reports, CMOM Plans, and rehabilitation plans produced under the SO



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and resulting CDs with individual tributary municipalities. Frequently participates in settlement negotiations providing technical support and collaborates with municipal engineers on CMOM plan and rehabilitation plan development and implementation.

Litigation Support, San Francisco Baykeeper v. City of Sunnyvale, California and City of Mountain View, California

Provided technical engineering in support of a citizen's suit under the CWA to evaluate the potential that sanitary sewage was exfiltrating from the Sunnyvale and Mountain View (Cities) sanitary sewer systems, entering the Cities' storm sewer systems, and discharging to surface waters resulting in bacteria levels exceeding the California Environmental Protection Agency's water quality standards for inland surface waters, enclosed bays, and estuaries in California. Analyzed surface water sampling results for fecal indicator bacteria and human-specific molecular markers collected over multiple years, the infrastructure attributes of the Cities' sanitary sewer and storm sewer systems, the Cities' sanitary sewer pipe investigations and structural condition assessment results, the Cities' sanitary sewer management plans, and the Cities' programs to prevent exceedances of bacteria water quality standards required under the California MS4 permit. Determined the magnitude of bacteria water quality standard exceedances in sampled surface waters and estimated the quantity of sanitary sewer pipes in each city at a high risk of exfiltrating sewage into the Cities' storm sewer systems (Exfiltration) for subsequent surface water discharge based on the relative horizontal and vertical distances between adjacent sanitary and storm pipes, age, construction material, and sanitary sewer pipe structural condition. Prepared an Expert Report and a Rebuttal Report evaluating the likelihood of Exfiltration from the Cities' sanitary sewer systems. Recommended remedies to reduce and eliminate Exfiltration and provided a cost estimate for the recommended remedy. Prepared rebuttal responses to Defendant's Expert Reports. Provided testimony at deposition.

Sarasota County, Florida, Water Reclamation Facility Wastewater Treatment Upgrades and Sanitary Sewer Overflows

Suncoast Waterkeeper

Provided technical engineering settlement negotiation assistance evaluating options for wastewater treatment upgrades at one of Sarasota County's (County) three WRFs to meet advanced wastewater treatment (AWT) standards for nitrogen removal and for reclaimed water storage and disposal options to eliminate unpermitted overflows from the WRF's effluent storage pond. Developed technical portions of a Stipulated Order to prevent SSOs and reduce I&I into the sanitary sewer systems, including requirements for a SSES investigation and development of CMOM Plans for the County's three sanitary sewer collection systems. Participated in numerous settlement negotiation meetings with the County in-person and via conference call. Collaborated with County engineers to identify solutions to technical settlement obstacles for achieving AWT at the WRF, eliminating unpermitted discharges from the reclaimed water storage pond, and developing the SSES and CMOM program elements and implementation schedules to prevent SSOs. Continues to evaluate collection system and WRF reports, designs, and plans, conduct additional analyses, and collaborate with County engineers as required under the Stipulated Order achieved in settlement.



RELEVANT EXPERIENCE & REPRESENTATIVE PROJECTS

City of Largo, Florida, Water Reclamation Facility NPDES Permit Violations

Suncoast Waterkeeper/Our Children's Earth Foundation

Provided technical engineering settlement negotiation assistance evaluating options for Largo to upgrade its sanitary sewer system and WRF to end violations of the WRF's NPDES permit effluent limit exceedances for total nitrogen, total phosphorus, fecal coliform, and Dichlorobromomethane, a harmful disinfection byproduct, and reduce I&I into the sanitary sewer system. Developed technical portions of an SO aimed at achieving NPDES permit compliance and reducing pollutant discharge to Old Tampa Bay, the WRF's effluent receiving water, including treatment process improvements at the WRF and investigation and rehabilitation of the sanitary sewer system to reduce I&I. Participated in numerous settlement negotiation meetings and court mediation sessions with Largo and collaborated with Largo's engineers in identifying solutions to technical settlement obstacles for reducing I&I and eliminating NPDES permit violations. Continues to evaluate reports, designs, and plans, conduct additional analyses, and collaborate with Largo's engineers as required under the SO achieved during settlement.

Litigation Support, Vacation Village Homeowners Association v. Town of Fallsburg, New York German Rubenstein LLP

Provided technical engineering support, including testimony at trial, in support of litigation related to the permitted discharge of treated wastewater effluent from the Town of Fallsburg Loch Sheldrake WRF into a privately owned lake that suffered from harmful algae blooms caused by elevated nutrient levels, namely phosphorus. Evaluated the adequacy of the design and operation of the WRF's treatment systems to remove phosphorus from wastewater and options for alternative effluent discharge locations. Reviewed and evaluated deposition testimony, SPDES permits, WRF design reports, effluent diversion studies, discharge monitoring reports, historical effluent flows and phosphorus loads data to the lake, and O&M manuals in preparation of an affidavit and trial testimony.

Advocacy Technical Support - Harrisburg, Pennsylvania Combined Sewer Overflows Lower Susquehanna Riverkeeper/Environmental Integrity Project

Analyzed the adequacy of Harrisburg's combined sewer overflow (CSO) Long Term Control Plan (LTCP) and its recommended alternative for reducing CSO volumes, CSO events, and achieving compliance for its combined sewer system with the United States Environmental Protection Agency's (USEPA) CSO Control Policy. Evaluated CSO control alternatives and implementation timelines not recommended in the LTCP. Analyzed the cost effectiveness of the LTCP's recommended alternatives and the adequacy of the proposed Water Quality Monitoring Plan. The LTCP was originally developed under a 2015 Partial CD between the United States and the Pennsylvania Department of Environmental Protection (PADEP). Provided technical engineering settlement negotiation support on development of a modified Partial CD and revised LTCP in numerous settlement meetings between PADEP, USEPA, and the Department of Justice (DOJ); Harrisburg; and Lower Susquehanna Riverkeeper and Environmental Integrity Project.



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Advocacy Technical Support – Food Production Facility Industrial Wastewater Treatment

Lower Susquehanna Riverkeeper/Environmental Integrity Project

Pennsylvania

Provided technical engineering support to interveners in a litigation between the United States and PADEP and a food production facility (Facility) resulting from years of NPDES permit effluent limitation exceedances for ammonia, BOD, TSS, temperature, and fecal coliform and failed USEPA and PADEP inspections at the Facility's industrial wastewater treatment facility (IWTF). Evaluated the treatment system design and O&M practices of the IWTF and recommended remedies for treatment and O&M shortcomings contributing to the NPDES permit effluent limitation exceedances and failed USEPA and PADEP inspections. Analyzed the Engineering Evaluation performed by the Facility's engineering consultant, and its subsequent revisions, intended to identify the root causes of IWTF treatment failures and NPDES permit effluent limitation exceedances. Participated in numerous meetings between USEPA, DOJ, PADEP, and the Facility regarding the adequacy of the Engineering Evaluation's root cause analysis and recommended remedies to prevent future NPDES permit effluent limitation exceedances and correct IWTF deficiencies identified during USEPA and PADEP inspections. Collaborated with engineers from USEPA, DOJ, and PADEP in development of recommend revisions to the Engineering Evaluation and of a Compliance Plan to bring the IWTF into compliance with its NPDES permit under a proposed CD.

Sacramento County, California – Sanitary Sewer Overflows

California Coastkeeper Alliance

Provided technical engineering support during settlement negotiations evaluating options for Sacramento County to improve its ongoing O&M, inspection, and rehabilitation of approximately 4,700 mile sanitary sewer system. Developed technical portions of a CD aimed reducing blockage-related SSOs with special attention on reducing SSOs from the lateral pipe portion of the sanitary sewer system. Participated in numerous settlement negotiation meetings to identify solutions to technical settlement obstacles for reducing SSOs.

Litigation Support, San Francisco Baykeeper and West County Toxics Coalition v. City of Richmond

Provided technical engineering support in evaluating compliance with Richmond's Consent Decree. Analyzed hydraulic capacity, operation and maintenance, and rehabilitation improvements to Richmond's collection system toward preventing SSOs. Prepared a declaration in support of a Contempt Motion against Richmond for failing to meet the obligations of the Consent Decree and provided technical settlement negotiation assistance resulting in a new Settlement Agreement. Continues to evaluate reports, designs, and conduct additional analyses as required under the Settlement Agreement.



RELEVANT EXPERIENCE & REPRESENTATIVE PROJECTS

City of Bradenton, Florida, Water Reclamation Facility NPDES Permit Violations

Suncoast Waterkeeper/Our Children's Earth Foundation/Tampa Bay Waterkeeper

Provided technical engineering settlement negotiation assistance evaluating options for wastewater treatment upgrades at Bradenton's WRF, improvements in Bradenton's sanitary sewer system infrastructure and O&M practices, and reductions in I&I to eliminate WRF Bypasses and NPDES permit effluent limitation exceedances for total nitrogen and toxic disinfection byproducts. Developed technical sections of a CD aimed at achieving NPDES permit compliance, reducing I&I, improving sanitary sewer system O&M, and reducing pollutant discharges to the Manatee River, the WRF's effluent receiving water, including improvements to the WRF's secondary clarification, tertiary filtration, and disinfection treatment processes and investigation and rehabilitation of the sanitary sewer system to reduce I&I. Participated in numerous settlement negotiation meetings with Bradenton and collaborated with Bradenton's engineers in identifying solutions to technical settlement obstacles for reducing I&I and eliminating Bypasses and NPDES permit violations. Continues to evaluate reports, designs, plans, and O&M standard operating procedures, conduct additional analyses, and collaborate with Bradenton's engineers as required under the CD achieved during settlement.

Advocacy Technical Support – Petroleum Refining and Plastics Production Wastewater Treatment Center for Biological Diversity United States

Evaluated the current Best Available Technology Economically Achievable (BAT) and effluent limitation guidelines (ELGs) based on existing Federal regulations for industrial wastewater generated by petroleum refineries (PR), with a specific focus on pollutants resulting from petroleum refining, hydrocarbon feedstock cracking processes, and plastic production facilities (PPF) for use in a public petition to EPA. Evaluated the effectiveness of current BAT and adequacy of ELGs based on EPA and independent studies to adequately remove identified pollutants of concern in wastewater discharges from PR and PPF and to treat wastewater generated from Light Tight Oil (LTO) refining. Drafted a technical report with recommended improvements to current BAT incorporating wastewater treatment technologies aimed specifically at removing pollutants of concern without existing ELGs and potential emerging pollutants resulting from increases in refining of LTO, which is produced by hydraulic fracturing.

Stormwater Management, Treatment, Permitting and Flooding Impacts:

Construction Stormwater Management System Design, Permitting, Inspections, Oversight, and Notice of Violation/Cease and Desist Order Remediation

Hotel Construction Project

Ulster County, New York

Designed permanent stormwater treatment systems, a construction erosion and sediment control plan, obtained SPDES permit, and developed a Stormwater Pollution Prevention Plans (SWPPP) in compliance with New York State Department of Environmental Conservation (NYSDEC) and New York City Department of Environmental Protection (NYCDEP) standards under challenging circumstances. The hotel construction project was underway and near completion when it was issued a Notice of Violation (NOV) and Cease and Desist Order (CDO) from NYSDEC related to stormwater management and permitting violations. The project was located within the NYCDEP reservoir system watershed and was subject to NYCDEP oversight, review, and approval of the SWPPP and the design of stormwater treatment systems and erosion sediment controls contained in the SWPPP. The stormwater management and treatment system and SWPPP were developed within the difficult constraints created by the fact that



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project planning was completed several years earlier and construction, including of numerous buildings and parking areas, was complete. Performed oversight of infiltration testing used for stormwater treatment system feasibility identification and design. Performed oversight of the installation of the stormwater treatment systems, including infiltration trenches, drywells, rain gardens, stormwater planter systems, and a riparian buffer. The stormwater treatment system design met NYSDEC water quality volume requirements, achieved groundwater recharge through infiltration of greater than 100% of the required water quality volume, and resulted in NYSDEC lifting of the NOV/CDO. Continues providing stormwater management oversight through completion of SPDES permit-required erosion and sediment control inspections and certification of stormwater treatment system installation.

Industrial Stormwater Permitting and Management, Staten Island Yacht Sales, Inc., Great Kills Yacht Club, Princess Bay Boatmen's Association, SOS Extreme Comfort Fuels, Rockland Transit Mix

Multiple clients

New York State

Remedied NOVs, obtained required SPDES permits, and developed Industrial SWPPPs for marinas in Staten Island, including design of boat power-washing water collection and recycle systems. Remedied an NOV, obtained required SPDES permit, and developed an Industrial SWPPP for Rockland Transit Mix of Rockland County, a ready-mix concrete batch plant. Obtained an individual surface water SPDES permit for industrial discharge for SOS Extreme Comfort Fuels in Orange County, NY. Continues to provide technical assistance meeting SPDES permit monitoring and reporting requirements for marinas and Rockland Transit Mix, including SWPPP modifications, annual compliance inspections and reporting, and discharge monitoring.

Construction Stormwater Management System Design – Waterfront Commons, Bay Street Landing, Veterans Road West Shoprite Plaza, and Tyrellan Avenue

Multiple clients

Staten Island, New York

Designed permanent stormwater treatment systems, obtained SPDES permits, and developed SWPPPs for the Waterfront Commons, Tyrellan Avenue, and Shoprite Plaza developments and the Bay Street Landing redevelopment. Incorporated a green roof, porous pavement, infiltration practices, underground detention, and a sand filtration system to meet water quality standards while accommodating small footprints. Designed infiltration stormwater treatment systems to increase groundwater recharge, and reduce runoff volumes.



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Litigation Support, Raritan Baykeeper v. Faztec Industries, Inc., et al.

Super Law Group

Staten Island, New York

Provided technical litigation and settlement negotiation support for CWA violations resulting from industrial stormwater discharges containing elevated levels of suspended sediment and metals from a construction and demolition processing facility located adjacent to state regulated wetlands and the Arthur Kill. Analyzed the facility's SWPPP, implementation of erosion and sediment controls, adequacy of stormwater collection and diversion, and treatment systems, including a sedimentation tank, truck washing system, and street sweeping protocols and performed dry-weather and wet-weather site inspections. Prepared an Expert Report evaluating the causes of polluted stormwater discharges from the facility and recommending remedies to reduce or eliminate polluted stormwater discharges and achieve compliance with the NYSDEC Multi-Sector General Permit. The recommended remedy include design of a subsurface sand filter treatment system, improved stormwater diversions, additional erosion and sediment control best management practices (BMPs), and new truck washing and street sweeping systems equipment and protocols. Estimated the costs for implementation of the recommended remedy. Developed a technical rebuttal memorandum to the Defendant's Expert Report used during successful settlement negotiations to reach agreement on a CD.

Litigation Support – Our Children's Earth Foundation v. Cargill, Inc.

Our Children's Earth Foundation (OCE)

Cayuga Lake, Lansing, NY

Provided technical engineering settlement negotiation assistance for CWA and Resource Conservation and Recovery Act (RCRA) violations resulting from stormwater discharges and airborne deposition resulting from salt mining, processing, storage, and transport activities at Cargill Inc.'s (Cargill) facility along the banks of Cayuga Lake. Performed a site inspection to analyze facility operations, stormwater BMPs, and dust collection systems. Evaluated the adequacy of Cargill's Stormwater BMP Plan and recommended enhancements to facility BMPs and operational practices to reduce salt pollution in stormwater runoff and salt dust from becoming airborne. Participated in two in-person settlement negotiation meetings that resulted in a CD. Continues to evaluate reports, designs, and conduct additional analyses and site inspections as required under the CD.

Litigation Support, Center for Community Action and Environmental Justice v. Friends of Riverside Airport, LLC

Lozeau Drury LLP

Riverside, California

Provided technical litigation and settlement negotiation support for Clean Water Act (CWA) violations resulting from stormwater discharges containing elevated levels of polychlorinated biphenyls (PCBs) and sediment from construction activities related to residential development and site remediation activities at a construction site containing PCB contaminated soils. Analyzed the site's implementation of erosion and sediment controls, including the design of sediment basins and management of off-site stormwater flows. Prepared an Expert Report evaluating the causes of polluted stormwater discharges and recommending remedies to reduce or eliminate polluted stormwater discharges, including design of conveyance systems to divert off-site stormwater run-on, a properly sized sediment basin, and a treatment system to remove PCB-contaminated sediments, and achieve compliance with the California Construction Stormwater General Permit. Estimated the costs for implementation of the recommended remedies.



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Litigation Support, Sandra Wells v. Alpha Natural Resources, et al.

Calwell, Luce, diTrapano, PLLC

Mingo County, West Virginia

Reviewed site plans, performed a site inspection, and developed a hydrologic model to analyze the impacts of stormwater runoff and downstream flooding from access roads to oil and gas extraction sites located on steep slopes. Analyzed Erosion & Sediment Control (ES&C) plans, practices, and maintenance, as well as pertinent West Virginia erosion and sediment control regulations. Developed expert opinions on the causes of downstream flooding and provided testimony at deposition.

Litigation Support, Plaintiffs, et al., v. Rabel Development, LLC, et al.

Calwell, Luce, diTrapano, PLLC

Charleston, West Virginia

Prepared a Preliminary Report for Settlement on the impacts of runoff from construction of a residential development and its contribution to flooding of the Plaintiffs' properties. Analyzed site plans, E&SC plans, inspection reports, and performed site inspections to evaluate the adequacy of stormwater controls, retention structures, and conveyance systems. Performed a cost estimate for improvements to downstream conveyance systems, included streambed dredging, removal of existing undersized culverts, and the installation of new culverts with adequate capacity.

Litigation Support, Plaintiffs, et al., v. Arch Mineral Corporation, et al.

The Masters Law Firm

Mingo County, West Virginia

Developed a hydrologic model and prepared a Preliminary Report for Settlement on the impacts of runoff from historical mountaintop mining and timbering operations resulting in catastrophic flooding in Pigeon Creek that impacted scores of private properties and dwellings. Analyzed site plans, mining operation inspection reports, and performed site inspections of numerous former mining and timbering locations and existing valley fills in Mingo County, West Virginia to evaluate conditions within the watershed tributary to Pigeon Creek.

Litigation Support, Tali Plaza of Nyack, LLC v. Village of Nyack and Town of Orangetown

Tali Plaza of Nyack

Nyack, New York

Analyzed the Village's stormwater collection system, runoff management practices, and the design flaws in a channel and underground culvert system that diverts the Nyack Creek and caused flooding in support of litigation. Determined the location of hydraulic bottlenecks in the culvert system and resulting flooding rates. Assisted in preparation of an affidavit and trial testimony.

Water Quality Protection and Pollutant Discharge Impact Analysis

Advocacy Technical Support – New York State Environmental Quality Review (SEQR) and Planning Board Reviews

Multiple Clients

New York State

Provided technical support to environmental advocacy groups and private citizens as part of the SEQR process in Putnam, Rockland, Greene, Dutchess, Sullivan, Orange, Ulster, and Suffolk counties regarding potential for flooding and adverse environmental impacts to downstream properties from improper stormwater collection, management, and treatment at proposed developments, land clearing activities, and



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sanitary sewage collection and treatment, including for proposed projects consisting of a water bottling facility, condominium/apartment complexes, resort hotel, skiing resort, construction material processing facility, warehouse complexes, and residential subdivisions, Prepared technical reports and Planning Board presentations highlighting the potential adverse environmental impacts, including pollutant releases and adverse water quality impacts, resulting from development and the technical and conceptual shortcomings of proposed E&SC plans, post-construction stormwater treatment and controls, flood-impact prevention approach, and wastewater treatment.

Advocacy Technical Support – Mount Rushmore Firework Display Environmental Assessment Water Quality Impact Technical Review

National Parks Conservation Association **Mount Rushmore National Memorial, South Dakota**

Evaluated the National Parks Service Environmental Assessment (EA) on the proposed resumption of the Independence Day Fireworks Event at Mount Rushmore National Memorial for the potential for adverse environmental impacts from firework related pollutant release, especially the persistent pollutant perchlorate, with a focus on potential surface water, groundwater, and drinking water impacts and their associated risks to human health and aquatic species. Prepared a technical report to assist NPCA in submission of public comments on the EA.

Advocacy Technical Support – Potomac River/Tributaries Bacteria Total Maximum Daily Load

Potomac Riverkeeper Network

Washington, D.C.

Analyzed the adequacy of the current bacteria (i.e., *E. coli*) total maximum daily load (TMDL) development and implementation for the Potomac River and its tributaries, including the Anacostia River. Evaluated the modeling contained within the Washington, D.C., combined sewer system's LTCP, its subsequent use in TMDL development by USEPA, and the waste load allocations for bacteria identified under the TMDL from the various sources of bacteria-containing water discharges (e.g., CSOs, treated wastewater, stormwater) to the Potomac River and its tributaries. Provided technical support for Potomac Riverkeeper Network in negotiations and meetings with USEPA and the Washington D.C. Department of Energy and Environment regarding development of a new bacteria TMDL for the Potomac River and its tributaries.

Litigation Support, Robert Carter, et al., v. Monsanto Company and Apogee Coal Company

Calwell, Luce, diTrapano, PLLC

Nitro, West Virginia

Analyzed and reviewed historical documentation to quantify airborne dioxin deposition from an herbicide manufacturing process. Calculated mass balances of dioxin generated by the overall production process and individual unit processes and determined the quantities of dioxin that discharged to the environment via air emissions, solid waste streams, and sewer discharges over a 25-year production time frame. Calculated the mass of dioxin remaining in soils adjacent to the plant based on air deposition modeling and the half-life of dioxin. Assisted in preparation of an Expert Report.



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Site Remediation:

Engineer of Record, Peter Jay Sharp Center for Opportunity

The DOE Fund, Inc.

Brooklyn, New York

Professional Engineer of Record for a brownfield site regulated under NYSDEC's Voluntary Cleanup Program. Performs operation, maintenance, and monitoring of a soil vapor extraction (SVE) system to remediate chlorinated solvent contaminated soils and groundwater beneath a former knit goods mill. Monitoring activities include monthly groundwater and SVE system monitoring, semi-annual groundwater sampling, and annual treated groundwater discharge sampling. Analyzes monitoring results to evaluate remediation system performance and meet NYSDEC reporting requirements. Coordinates modifications to the remediation system, including installation of permanent vacuum monitoring locations, analysis of the SVE system's sub-surface vacuum, and conversion of the SVE to a sub-slab depressurization system. Responsible for monthly Progress Report, annual Periodic Review Report, and work plan submittals to the NYSDEC.

Advocacy Technical Support – NIPSCO Bailly Power Generation Remediation

National Parks Conservation Association

Indiana Dunes National Lakeshore, Indiana

Evaluated the cleanup approach proposed by the Northern Indiana Public Service Company (NIPSCO) to remediate historical groundwater, soil, surface water, and sediment contamination (Proposed Remedy) that resulted from coal ash disposal from power generation at the Bailly Generating Station located in Chesterton, Indiana adjacent to the Indiana Dunes National Lakeshore (Indiana Dunes) and Lake Michigan. The evaluation considered the adequacy of NIPSCO's Proposed Remedy to be protective of human health and the sensitive ecological resources found at Indiana Dunes, inclusive of the technical aspects of contamination cleanup and long-term stewardship plan. Prepared a technical report to assist National Parks Conservation Association in submission of public comments on the Proposed Remedy.

Litigation Support, Valley Truck Services, Inc., et al., v. Textron, Inc., et al.

Transportation Injury Law Group, PLLC

Asheville, North Carolina

Designed two different groundwater treatment systems to remediate a former industrial site contaminated with volatile organic compounds (VOCs) and potentially with 1,4-Dioxane. The first system consisted of an air stripper with air effluent treatment to remove VOCs. The second system consisted of advanced oxidation using hydrogen peroxide and ultra-violet light to treat VOCs and 1,4-Dioxane. Estimated the construction costs and performed a present worth analysis for each system, including 30 years of operation and maintenance, equipment replacement, and demolition costs.

Litigation Support, Penn Environment v. PPG Industries, Inc.

Terris, Pravlik & Millian, LLP

Ford City, Pennsylvania

Assisted in design of the remedy for the discharge of heavy metals, silica, and high pH contaminated groundwater to the Allegheny River from a former industrial waste lagoon. Remedy included a collection system, treatment plant, horizontal groundwater well, and capping system. Performed cost estimate of the remedy capital and operation and maintenance costs.



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Monitoring and Construction Oversight, 236 Richmond Valley Road

Charleston Equites/Tottenville Equities

Staten Island, New York

Conducted monitoring and construction oversight for the redevelopment of a NYSDEC Brownfields Program site. Ensured all work was conducted in accordance with the site's Remedial Action Work Plan, Site Management Plan, and Health and Safety Plan. Conducted air quality monitoring and oversaw the proper handling and disposal of excavated contaminated materials. Responsible for daily reporting to the NYSDEC.

Pro Bono Assistance:

Sanitary Sewer Overflows (SSOs) - California State Water Board SSO Technical Working Group

California Coastkeeper Alliance (CCKA)

California

Served as CCKA's technical engineering advisor in formulation of regulatory requirements contained within a new proposed state permit for operation and performance of sanitary sewer systems as part of CCKA's participation in the California State Water Board's SSO Technical Working Group (SSO Technical Working Group). Participated in SSO Technical Working Group meetings and CCKA team discussions. Continues to provide technical expertise to CCKA as part of the SSO Technical Working Group as needed.

Water Quality Protection – Land Development Impacts

Land Preservation Collective

Orange County, New York

Advised a local, community-based advocacy group, Land Preservation Collective (LPC), related to the potential adverse impacts to a local stream and downstream receiving pond from a proposed nearby housing development. Assisted LPC in identifying potential adverse water quality impacts during and after construction, understanding local, State, and Army Corps of Engineers guidance and regulations, and preparing LPC's presentation to the local planning board.

Community Environmental and Health Protection – Auto Dealership Fire Community Impacts

Private Citizens

Ulster County, New York

Advised a group of local citizens whose property was located adjacent to the site of an automobile dealership (Dealership) that burned down, destroying the entire structure, car maintenance areas, stored materials, and numerous automobiles. The Dealership was ruled condemned and contaminated by New York State Department of Environmental Conservation (NYSDEC) due to elevated levels of numerous dangerous chemicals, including asbestos, lead, cadmium, and potentially PFAS from firefighting activities. Condemned debris remained at the Dealership exposed to wind, precipitation and stormwater for months. Assisted with preparation and collection of soil and stormwater runoff samples and comparison of analytical results to NYSDEC regulatory standards. Continues to assist the local citizens as needed.



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RELEVANT EXPERIENCE & REPRESENTATIVE PROJECTS

Publications:

Water Environment Federation, Author, Asset Management Fact Sheet, 2022.

Water Environment Federation, Contributing Preparer, Technologies for CMOM Activities in Wastewater Collection Systems, WEF Special Publication, 2022.

Draganchuk, Kevin, Sanitary Sewage Exfiltration to MS4s and Receiving Waters – Source Identification and Elimination, American Public Works Association, New York Chapter, 2022 Annual Conference and Exhibition, March 25, 2022.

Water Environment Federation, Reviewer, Wastewater Collection Systems Management, Manual of Practice No. 7, 7th Edition, 2021.

Draganchuk, Kevin, Preventing Sanitary Sewer Overflows – Lessons Learned for Watershed Protection, American Public Works Association, New York Chapter, 2021 Virtual Conference and Exhibition, March 26, 2021.

Draganchuk, Kevin, Road Salt Pollution Prevention at its Source – A Case Study in Best Practices, New York Water Environment Association, Virtual NYC Watershed Science and Technical Conference, September 15, 2020.

Draganchuk, Kevin, I&I Removal – Lessons Learned for Avoiding Pitfalls and Increasing Effectiveness, New York Water Environment Association, Virtual Spring Technical Conference and Exhibition, June 9, 2020.

Draganchuk, Kevin, Preventing SSOs – Lessons Learned for Watershed Protection, New York Water Environment Association, Spring Technical Conference and Exhibition, June 13, 2018.

Testimony History:

Chesapeake Bay Foundation, Inc. and James River Association v. County of Henrico, Deposition September 9, 2022.

Scott Pere, et al. individually, and on behalf of those similarly situated, Plaintiffs, v. Town of Fallsburg, et al., Defendants and Vacation Village Homeowners Association, Inc., Plaintiff, v. Town of Fallsburg, et al., Defendants, Trial, August 3, 2022.

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RELEVANT EXPERIENCE & REPRESENTATIVE PROJECTS

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