Public Building Commission of Chicago Richard J. Daley Center, Room 200 50 W. Washington Street Chicago, Illinois 60602 www.pbcchicago.com	**PROFESSIONAL SERVICES AGREEMENT** **ENVIRONMENTAL ENGINEERING SERVICES (PS3080G)**

PUBLIC BUILDING COMMISSION OF CHICAGO

AND

SPECIALTY CONSULTING, INC.

FOR

ENVIRONMENTAL ENGINEERING SERVICES (PS3080G)

Public Building Commission of Chicago
Richard J. Daley Center, Room 200
50 W. Washington Street
Chicago, Illinois 60602
www.pbcchicago.com

FIRM NAME:	Specialty Consulting, Inc.
CONTACT NAME:	Arturo Saenz
CONTACT TELEPHONE:	312-319-7575
CONTACT EMAIL:	asaenz@spc-inc.com
ADDRESS:	2942 West Van Buren Street Chicago, Illinois 60612

Mayor Brandon Johnson
Chairman

Ray Giderof
Acting Executive Director

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ENVIRONMENTAL ENGINEERING SERVICES– PS3080G

THIS AGREEMENT effective as of January 1, 2024, but actually executed on the date witnessed, is entered into by and between the **Public Building Commission of Chicago**, a municipal corporation of the State of Illinois, having its principal office at Room 200, Richard J. Daley Center, 50 West Washington Street, Chicago, Illinois 60602, (the **"Commission"**), and **Specialty Consulting, Inc.** with offices at 2942 West Van Buren Street, Chicago, Illinois 60612 (the **"Consultant"**).

Recitals:

Whereas, the Commission intends to undertake from time to time the acquisition, demolition, renovation, development, construction and/or improvement of buildings, facilities and other improvements ("Project") located in the City of Chicago ("City") at the request of various governmental and public agencies ("User Agency").

WHEREAS, the Commission requires certain professional services as described in Schedule B the Agreement (the "Services") contained herein, in connection with the Projects undertaken by the Commission for the use and benefit of a User Agency.

WHEREAS, the Consultant desires to be retained by the Commission to perform the Services and has represented to the Commission that the Consultant is qualified and competent, by education and training, and has the knowledge, skill, experience and other resources necessary to perform the Services required by the Agreement in accordance with terms and conditions of the Agreement.

WHEREAS, in reliance upon the Consultant's representations and Key Personnel as identified in Schedule E of this Agreement, the Commission has selected the Consultant to perform the Services on the terms and conditions set forth in this Agreement as modified from time to time by Task Order.

NOW,THEREFORE, the parties have executed this Agreement on the terms and conditions that follow:

EXECUTION PAGE
ENVIRONMENTAL ENGINEERING SERVICES – PS3080G

PUBLIC BUILDING COMMISSION OF CHICAGO

Date: 1/9/2024

Mayor Brandon Johnson
Chairman

ATTEST:

Mary Pat Witry

Date: 1/9/2024

Mary Pat Witry
Secretary

CONSULTANT: Specialty Consulting, Inc.

Date: 1/4/24

President or Approved Signatory

AFFIX CORPORATE
SEAL, IF ANY, HERE

OFFICIAL SEAL
MARIA ELENA PEREZ
NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires 9/21/24

County of: Cook

State of: Illinois

Subscribed and sworn to before me by Arturo Saenz and _____
on behalf of Consultant this 4th day of Jan, 2024

Notary Public

My Commission expires: 09/21/2024

(SEAL OF NOTARY)

Approved as to form and legality:

Anne L. Freed

Date: 1/8/2024

Neal & Leroy, LLC

SCHEDULE A
TERMS AND CONDITIONS

1. **Recitals.** The Recitals set forth on the Execution Page of this Agreement are hereby incorporated herein by reference.

2. **Definitions.** The herein words and phrases have the following meanings for purposes of this Agreement.

   a. **Agreement** means this Professional Services Agreement for Specialty Consulting Services, including all schedules, exhibits, attachments, or documents attached hereto and/or incorporated by reference herein, and all amendments, supplements or Task Orders made in accordance with the terms hereof.

   b. **Commission** means the Public Building Commission of Chicago, a municipal corporation organized under the Public Building Commission Act of the State of Illinois, as amended, or its duly authorized officers or employees.

   c. **Consultant** means the company or other entity identified in this Agreement, and such successors or assigns, if any, as may be authorized to perform the Services required by the terms and conditions of this Agreement.

   d. **e-Builder System** or **e-Builder** means the on-line collaboration workspace and document management system established and maintained by the Commission for electronic submission and receipt of documents and reports.

   e. **Deliverables** means the documents, in any format (electronic or hard copy) requested by the Commission, including without limitation drawings, plans, reports, forms, recommendations, and analyses, that the Consultant is required under this Agreement to provide to the Commission.

   f. **Equipment** means the articles or physical resources, tangible or intangible, including but not limited to, hardware, firmware or software enabling the Commission to implement the Projects and Consultant to perform the Services under this Agreement.

   g. **Executive Director** means the person employed by the Commission as its Executive Director or the duly authorized representative thereof.

   h. **Key Personnel** means those job titles and persons as identified in such positions in the Request for Qualifications response.

   i. **Services** means collectively, the duties, responsibilities and tasks that are necessary in order for the Consultant to provide the Scope of Services required by the Commission under Section IV of the Request for Qualifications response and the assigned Task Order.

   j. **Sub-consultant or Subcontractor** means a partnership, firm, corporation or entity other than the Consultant that furnishes labor, materials and/or equipment to the Consultant related to the performance of the Services and/or improvement of the Project.

   k. **Task Order** means a document issued by the Commission to the Consultant pursuant to this Agreement that authorizes in writing Services and/or Deliverables to be provided by the Consultant, together with any applicable exhibits or schedules, a timetable for any Deliverables and the applicable fees.

3. **Incorporation of Documents.** The Resolution passed by the Board of Commissioners of the Commission on October 1, 2009, concerning utilization of minority business enterprises ("MBE") and women business enterprises ("WBE"), as the same may be amended from time to time, is hereby incorporated in and made a part of this Agreement. By executing this Agreement, Consultant acknowledges and agrees that Consultant is familiar with the contents of such Resolution and will comply fully with all applicable portions thereof in performing the Services.

4. **Engagement and Standards for Performing Services.**

   a. **Engagement.** The Commission hereby engages the Consultant, and the Consultant hereby accepts such engagement, to provide the Services described in this Agreement, as the same may be amended, in writing, from time to time by mutual agreement of the Commission and the Consultant.

   b. **Performance Standard.** The Consultant represents and agrees that the Services performed under this Agreement will proceed with efficiency, promptness and diligence and will be executed in a competent and thorough manner, in accordance with reasonable professional standards in the field consistent with that degree of skill and care ordinarily exercised by practicing consulting professionals performing services of a scope, purpose, and magnitude comparable with the Services to be provided under this Agreement and the assigned Task Order. If in the course of performing the

Services, Consultant identifies any condition, situation, issue or problem that may impact the performance of the Services or the Project, Consultant shall promptly provide notice to the Commission.

c. **Consultant's Personnel.** The Consultant agrees that it will assign at all times during the term of the Agreement the number of experienced, appropriately trained employees necessary for the Consultant to perform the Services under this Agreement and the assigned Task Order in the manner required by this Agreement. Consultant must not reassign or replace Key Personnel without the written consent of the Commission. Consultant must ensure that all Services and Deliverables that require the exercise of professional skills or judgment are accomplished by professionals qualified and competent in the applicable discipline and appropriately licensed, if required by law. Consultant must maintain current copies of any such licenses and provide such copies, upon request, to the Commission. Consultant remains responsible for the professional and technical accuracy of all Services and Deliverables furnished, whether by the Consultant or others on its behalf. Consultant must, at all times, use it best efforts on behalf of the Commission to assure timely and satisfactory rendering and completion of the Services. Consultant must perform all Services in accordance with the terms and conditions of this Agreement, to the reasonable satisfaction of the Commission. All Deliverables must be prepared in a format satisfactory to the Commission and delivered in a timely manner consistent with the requirements of this Agreement and the assigned Task Order.

d. **Independent Contractor.** In performing the Services under this Agreement, Consultant shall at all times be an independent contractor, and does not and must not act or represent itself as an agent or employee of the Commission or the User Agency. As an independent contractor, Consultant is solely and wholly responsible for determining the means and methods for performing the Services. The Agreement will not be construed as an agreement of partnership, joint venture, or agency.

e. **Limitations on Sub-Consultants and Subcontractors.** Consultant must not use any business or individual who is disqualified by the Commission or debarred under any other governmental agency's procedures to provide the Services under the Agreement.

f. **Failure to Meet Performance Standard.** If the Consultant fails to comply with its obligations under the standards of the Agreement, the Consultant must perform again, at its own expense, all Services required to be re-performed as a direct or indirect result of that failure. Any review, approval, acceptance or payment for any of the Services by the Commission does not relieve Consultant of its responsibility to render the Services and Deliverables with the professional skill and care and technical accuracy required by the Agreement. This provision in no way limits the Commission's rights against the Consultant, either under the Agreement, at law or in equity.

g. **Changes to the Services.** The Commission may from time to time, request changes to the terms of the Agreement, Task Order or the Services of the Consultant to be performed hereunder. Such changes, including any increase or decrease in the amount of compensation and revisions to the duration of the Services or timetable for Deliverables, which are mutually agreed upon by and between the Commission and Consultant, shall be incorporated in a written amendment to this Agreement or the Task Order. The Commission shall not be liable for any changes absent such written amendment.

5. Representations and Warranties. Consultant represents, warrants and covenants that (a) it will comply with all laws and regulations in performing the Services; (b) it will perform the Services in accordance with the terms and conditions of the Agreement in a professional and workmanlike manner consistent with best industry standards and practice; (c) it possesses all right, power and authority to enter into this Agreement; (d) all Deliverables shall be original works of Consultant or that Consultant shall have all rights necessary to provide such Deliverables; and (e) neither the Services, Deliverables or any other materials or any part thereof, provided to the Commission shall infringe any patent, copyright, trademark, trade secret or other proprietary right of a third party. If any Services performed by Consultant fail to meet the above warranties, then without limiting any other remedies at law or in equity, Consultant shall promptly correct or re-perform any such affected Services at no cost to the Commission. Further, Consultant acknowledges that the Commission has entered or will enter into agreements with third party vendors to provide a third party data hosting site and a disaster recovery site. Consultant agrees to abide by all rules, regulations and other requirements prescribed by such third party vendors in order to gain access to the Equipment and perform the Services required by this Agreement.

6. Duties and Obligations of Consultant.

a. **Nondiscrimination.** The Consultant agrees that in performing this Agreement it shall not discriminate against any worker, employee or applicant for employment, or any member of the public, because of race, creed, gender, color, national origin or disability, or otherwise commit an unfair labor practice. Attention is called to applicable provisions of the Civil Rights Act of 1964, 88-352, July 2, 1964, 78 Stat. 241 et. Seq. the Americans with Disabilities Act of 1990, 42

U.S.C. 12010 et. Seq., the Age Discrimination Act, 43 U.S.C. Sec. 6101-6106 (1981); Illinois Human Rights Act 775 ILCS 5/1-101 et. Seq. and the Public Works Employment Discrimination Act 775 ILCS 10/0.0 1 through 10/20, the Chicago Human Rights Ordinance, Chapter 2-160, Section 2-160-010 et seq. of the Municipal Code (1990), as amended, and a Resolution passed by the Board of Commissioners of the Public Building Commission of Chicago on October 1, 2009, concerning participation of Minority Business Enterprises and Women Business Enterprises on contracts awarded by the Commission. The Consultant will furnish such reports and information as requested by the Commission or the Illinois Department of Human Relations or any other administrative or governmental entity overseeing the enforcement, administration or compliance with the above referenced laws and regulations.

b. **Employment Procedures, Preferences and Compliances.** Salaries of employees of Consultant performing work under this Agreement shall be paid unconditionally and not less often than once a month without deduction or rebate on any account except only such payroll deductions as are mandatory or permitted by the applicable law or regulations. Attention is called to [Illinois Compiled Statutes, 1992 relating to Wages and Hours including 820 ILCS 130/0.01 through 130/12 thereof (Prevailing Wage Act), 30 ILCS 570/1 through 570/7 (Employment of Illinois Workers on Public Works Act) and 30 ILCS 560/0.01 through 560/7 (Public Works Preference Act).] The Consultant shall comply with all applicable "Anti-Kickback" laws and regulations, including the "Anti-Kickback" Act of June 13, 1934 (48 Stat. 948; 62 Stat. 740; 63 Stat. 108; 18 U.S.C. § 874; 40 U.S.C. § 276c) and the Illinois Criminal Code of 1961 720 ILCS 5/33E-1 et. seq. If, in the performance of this Agreement, there is any direct or indirect kickback, the Commission shall withhold from the Consultant, out of payments due to it, an amount sufficient to pay employees underpaid the difference between the salaries required hereby to be paid and the salaries actually paid such employees for the total number of hours worked. The amounts withheld shall be disbursed by the Commission for and on account of the Consultant to the respective employees to whom they are due.

c. **Ethics.** The Consultant has read and agrees to comply with all provisions of the Code of Ethics Resolution passed by the Commission on October 3, 2011, which is available on the Commission's website at https://www.pbcchicago.com/wp-content/uploads/2017/05/RES_PBC_ecr_CodeofEthicsConsolApril-2013_20130405.pdf and is incorporated into this Agreement by reference. Any contract negotiated, entered into, or performed in violation of any of the provisions of this Section will be voidable by the Commission.

d. **Inspector General.** The Consultant and its subconsultants, including all officers, directors, agents, partners and employees of such entities shall cooperate with the Inspector General of the Public Building Commission in any investigation or hearing undertaken pursuant to Public Building Commission Resolution 7576 adopted by the Board of Commissioners of the Public Building Commission of Chicago on October 1, 2010. On projects funded by the City of Chicago, the Consultant and its subconsultants, including all officers, directors, agents, partners and employees of any such entities, shall cooperate with the Inspector General of the City in any investigation or hearing undertaken pursuant to Chapter 2-56 of the Chicago Municipal Code. Each Consultant understands and will abide by all provisions of Chapter 2-56 of the Municipal Code of Chicago. All Consultants will inform their respective subconsultants of this provision and require compliance herewith. Consultant shall cooperate and comply with the Inspector General of the User Agency in any investigation or hearing undertaken pursuant to the enabling ordinance or resolution pertaining to the authority of such Inspector General that has been promulgated by such User Agency.

e. **Delays.** The Consultant agrees that no charges for damages or claims for damages shall be asserted by it against the Commission for any delays or hindrances from any cause whatsoever during the progress of any portion of the Services. Such delays or hindrances, if any, shall be compensated for by an extension of time to complete the Services, for such reasonable period as may be mutually agreed upon between the parties, it being understood, however, that the agreement of the Commission to allow the Consultant to complete the Services or any part of them after the time provided for the completion thereof herein shall in no way operate as a waiver on the part of the Commission of any of its rights hereunder.

f. **Records.** The Consultant shall maintain accurate and complete records of expenditures, costs and time incurred by Consultant in connection with the Project and the Services. Such records shall be maintained in accordance with recognized commercial accounting practices. The Commission may examine such records at Consultant's offices upon reasonable notice during normal business hours. Consultant shall retain all such records for a period of not less than five calendar years after the termination of this Agreement.

g. **e-Builder System.** The Commission may require the Consultant to use the Commission's electronic document management system in performing the Services and the assigned Task Order. At the direction of the Commission, the Consultant must follow the e-Builder procedures and submit progress reports and other Deliverables through the e-Builder System. The Consultant must attend courses and receive training on the e-Builder System provided by or on

behalf of the Commission. Any costs incurred by Consultant as a result of the attendance of Consultant's personnel at e-Builder System courses are not compensable by the Commission.

h. **Time of Essence.** The Consultant acknowledges and agrees that time is of the essence in the performance of this Agreement and that timely completion of the Services is vital to the completion of the Project by the Commission. Consultant agrees to use its best efforts to expedite performance of the Services and the assigned Task Order and performance of all other obligations of the Consultant under this Agreement and any other agreement entered into by the Commission which are managed or administered by the Consultant as a result of the Consultant's engagement hereunder.

i. **Compliance with Laws.** In performing its engagement under this Agreement, the Consultant shall comply with all applicable federal, state and local laws, rules and regulations including but not limited to, those referenced in subparagraphs (a) and (b) above.

j. **Progress Meetings.** Meetings to discuss the progress of the Project and/or to review the performance of the Consultant may be scheduled upon the Commission's request, at mutually agreeable times and locations, and the Consultant agrees to cause such meetings to be attended by appropriate personnel of the Consultant engaged in performing or knowledgeable of the Services.

7. Term.

a. The term of this Agreement is three (3) years with two (2) successive one (1)-year renewal options at the sole discretion of the Commission. This agreement may be terminated by the Commission, with cause, upon thirty (30) days notice to the Consultant and provided further, that this agreement may be terminated at any time during the term by mutual agreement of the parties.

b. The Commission shall have the right, at any time, to terminate the term of this Agreement, with or without cause, by written notice given to the Consultant at least thirty (30) days prior to the effective date of termination. In addition, the Commission shall have the right, at any time and from time to time, with or without cause, to suspend the performance of the Consultant hereunder with respect to all or any part of the Services, by written notice given to the Consultant at least five (5) days prior to the effective date of suspension. Termination or suspension of this Agreement shall not relieve the Consultant from liability for the performance of any obligation of the Consultant under this Agreement performed or to have been performed by the Consultant on or before the effective date of termination or suspension. Provided the Consultant is not in default under this Agreement at the time of termination or suspension, the Commission agrees to pay to the Consultant, in accordance with the terms of this Agreement, all compensation and reimbursements due to the Consultant for periods up to the effective date of termination or suspension. In no event shall the Commission be liable to the Consultant for any loss, cost or damage which the Consultant or any other party may sustain by reason of the Commission terminating or suspending this Agreement as provided herein; provided, however, that the Commission may, in its sole discretion, reimburse the Consultant for actual expenses approved by the Commission.

c. If the Project, in whole or substantial part, is stopped for a period longer than thirty (30) days under an order of any court or other governmental authority having jurisdiction of the Project, or as a result of an act of government, such as a declaration of national emergency making materials unavailable, through no act or fault of the Consultant, or if the Commission fails to make any payment or perform any other obligation hereunder, the Consultant shall have the right to terminate this Agreement, by written notice given to the Commission at least seven (7) days prior to the effective date of termination, and shall have the right to recover from the Commission all compensation and reimbursements due to the Consultant for periods up to the effective date of termination.

8. Compensation of Consultant; Submission of Invoices through e-Builder. The total amount of compensation to be paid by the Commission during the term of this Agreement shall not exceed the sum of $2,000,000.00 unless amended by the Commission. The Commission shall compensate the Consultant for the Services in the manner set forth in Schedule A of this Agreement, or as modified by written authorization. The Consultant shall submit all invoices, no more frequently than once every thirty (30) days, in electronic format using the e-Builder System. All submitted invoices shall include a cover page as provided by the Commission and the assigned Task Order number. Failure to submit invoices through e-Builder will result in delayed or non-payment to the Consultant.

9. Rights and Obligations of Commission. In connection with the administration of the Project by the Commission and the performance of this Agreement by the Consultant, the Commission shall have the following rights and obligations, in addition to those provided elsewhere in this Agreement:

a. **Information.** The Commission shall provide the Consultant all reasonably requested information concerning the

Commission's requirements for the Project and the Services.

b. **Review of Documents.** Subject to the provisions of subparagraph 5(d) above, the Commission agrees to make a reasonable effort to examine documents submitted by the Consultant and render decisions pertaining thereto with reasonable promptness.

c. **Site Data.** To the extent the Commission determines to be necessary for the Consultant to perform the Services and the assigned Task Order, the Commission may furnish to the Consultant information concerning the nature of the Project, existing conditions and other data or reports pertaining to the site and the proposed development thereof.

d. **Tests and Reports.** The Commission may also furnish structural, civil, chemical, mechanical, soil mechanical and/or other tests and reports if determined by the Commission in its sole discretion to be necessary in order for the Consultant to perform the Services.

e. **Legal, Auditing and other Services.** The Commission shall arrange and pay for such legal, auditing, insurance counseling and other services as the Commission, in its sole discretion, may determine to be required for the Consultant to perform the Services. Such payments shall not include legal or auditing expenses arising out of or relating to any errors or omissions, or claimed errors or omissions, of Consultant.

f. **Designated Representatives.** The Commission may designate, at its sole discretion, one or more representatives authorized to act in its behalf.

g. **Ownership of Documents.** All documents, data, studies and reports prepared by the Consultant or any party engaged by the Consultant, pertaining to the Services shall be the property of the Commission, including copyrights.

h. **Audits.** The Commission shall have the right to audit the books and records of the Consultant on all subjects relating to the Services.

10. Indemnification of Commission and Third Party Vendors. The Consultant hereby agrees to indemnify, keep and save harmless the Commission and the User Agency and their respective commissioners, board members, officers, agents, officials and employees and any third party hosting site or disaster recovery site from and against all claims, demands, suits, losses, costs and expenses, including but not limited to, the fees and expenses of attorneys, that may arise out of or be based on any injury to persons or property that is or is claimed to be the result of an error, omission or act of the Consultant or any person employed by the Consultant to the maximum extent permitted by applicable law.

11. Insurance to be Maintained by Consultant. The Consultant shall purchase and maintain at all times during the performance of Services hereunder, for the benefit of the Commission, the User Agency and the Consultant, insurance coverage as set forth in SCHEDULE D.

12. Default.

a. **Events of Default.** Any one or more of the following occurrences shall constitute an Event of Default under this Agreement:

i. Failure or refusal on the part of the Consultant duly to observe or perform any obligation or Agreement on the part of the Consultant contained in this Agreement, which failure or refusal continues for a period of ten (10) days (or such longer period as the Commission, in its sole discretion, may determine if such failure is not capable of being cured within such ten (10) day period) after the date on which written notice thereof shall have been given to the Consultant by the Commission;

ii. Failure of Consultant to perform the Services to the standard of performance set forth in this Agreement;

iii. Any representation or warranty of the Consultant set forth herein or otherwise delivered pursuant to this Agreement shall have been false in any material respect when so made or furnished;

iv. The Consultant becomes insolvent or ceases doing business as a going concern, or makes an assignment for the benefit of creditors, or generally fails to pay, or admits in writing its inability to pay, its debts as they become due, or files a voluntary petition in bankruptcy, or is adjudicated a bankrupt or an insolvent, or files a petition seeking for itself any reorganization, arrangement, composition, readjustment, liquidation, dissolution, or similar arrangement under any present or future statute, law or regulation relating to bankruptcy or insolvency, or files an answer admitting the material allegations of a petition filed against it in any such proceeding, or applies for, consents to or acquiesces in the appointment of a trustee, receiver, liquidator or other custodian of it or of all or any substantial part of its assets or properties, or if it or its principals shall take any action in furtherance of any of the foregoing; or

v. There shall be commenced any proceeding against the Consultant seeking reorganization, arrangement, readjustment, liquidation, dissolution or similar relief under any present or future statute, law or regulation relating to bankruptcy which is not vacated, stayed, discharged, bonded or dismissed within sixty (60) days thereof, or there shall be appointed, without the Consultant's consent or acquiescence, any trustee, receiver, liquidator or other custodian of Custodian or of all or any substantial part of the Consultant's assets and properties, and such appointment shall not have been vacated, stayed, discharged, bonded or otherwise dismissed within sixty (60) days thereof.

b. **Remedies**. If an Event of Default shall occur and be continuing, then the Commission may exercise any right, power or remedy permitted to it by law or in equity and shall have, in particular, without limiting the generality of the foregoing, the right to terminate this Agreement upon written notice to the Consultant, in which event the Commission shall have no further obligations hereunder or liability to the Consultant except as to payment for Services actually received and accepted by the Commission through the effective date of termination. No course of dealing on the part of the Commission or delay or failure on the part of the Commission to exercise any right shall operate as a waiver of such right or otherwise prejudice the Commission's rights, powers or remedies.

c. **Remedies not Exclusive.** No right or remedy herein conferred upon or reserved to the Commission is exclusive of any right or remedy herein or by law or equity provided or permitted, but each shall be cumulative of every other right or remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise, and may be enforced concurrently therewith or from time to time.

13. **Confidentiality.** All of the reports, information, or data prepared or assembled by the Consultant under this Agreement are confidential, and the Consultant agrees that such reports, information or data shall not be made available to any party without the prior written approval of the Commission. In addition, the Consultant shall not, without the prior written consent of the Commission, prepare or distribute any news releases, articles, brochures, advertisements or other materials concerning this Agreement, the Project, the Services or any assigned Task Order. Consultant acknowledges that it is entrusted with or has access to valuable and confidential information and records of the Commission and User Agency. Consultant must at all times act in the best interests of the Commission and User Agency consistent with the professional obligations assumed by Consultant in entering into this Agreement. Consultant promises to cooperate with the officials, employees and agents of the Commission and User Agency in furthering the Commission's and User Agency's interests.

14. **Assignment.** The Consultant acknowledges that the Commission is induced to enter into this Agreement by the personal qualifications of the principals, staff and employees of the Consultant and agrees, therefore, that neither this Agreement nor any right or obligation hereunder may be assigned by the Consultant, in whole or in part, without the prior written approval of the Commission. The Commission expressly reserves the right to assign or otherwise transfer all or any part of its interests hereunder without the consent or approval of the Consultant.

15. **Personnel.** The Consultant further acknowledges that the Consultant has represented to the Commission the availability of certain members of the Consultant's staff who will be assigned to the Project, and agrees, therefore, that in the event of the unavailability of such members, the Consultant shall so notify the Commission in writing, and, upon the approval of the Executive Director, shall assign other qualified members of the Consultant's staff, to the Project.]

16. **Relationship of Parties.** The relationship of the Consultant to the Commission hereunder is that of an independent contractor, and the Consultant, except to the extent expressly provided to the contrary in this Agreement, shall have no right or authority to make contracts or commitments for or on behalf of the Commission, to sign or endorse on behalf of the Commission any instruments of any nature or to enter into any obligation binding upon the Commission. This Agreement shall not be construed as an Agreement of partnership, joint venture, or agency.

17. **Miscellaneous.**

a. **Counterparts.** This Agreement may be executed in any number of counterparts, any of which shall be deemed an original.

b. **Entire Agreement.** This Agreement constitutes the entire understanding and Agreement between the parties hereto and supersedes any and all prior or contemporaneous oral or written representations or communications with respect to the subject matter hereof, all of which communications are merged herein. This Agreement shall not be modified, amended or in any way altered except by an instrument in writing signed by both of the parties hereto.

c. **Force Majeure.** Neither of the parties shall be liable to the other for any delay or failure in performance hereunder due to causes which are beyond the control of the party unable to perform. If a force majeure occurs, the party delayed or unable to perform shall give prompt notice to the other party, and the Commission may, at any time during the

continuation of the force majeure event, elect to suspend the performance of the Consultant under this Agreement for the duration of the force majeure. The Commission shall not be obligated to pay for Services to the extent and for the duration that performance thereof is delayed or prevented by force majeure, but, provided the Consultant is not in default of any obligation of the Consultant hereunder, the Commission shall pay to the Consultant, according to the terms hereof, all compensation and reimbursements due to the Consultant for periods up to the effective date of suspension.

d. **Governing Law.** This Agreement has been negotiated and executed in the State of Illinois and shall be construed under and in accordance with the internal laws of the State of Illinois.

e. **No Waiver.** The waiver by either party of any breach of this Agreement shall not constitute a waiver as to any succeeding breach.

f. **Notices.** All notices required to be given hereunder shall be given in writing and shall be hand delivered or sent by United States certified or registered mail, postage prepaid, addressed to Commission and to the Consultant at their respective addresses set forth above. If given as herein provided, such notice shall be deemed to have been given on the date of delivery, if delivered by hand, and on the second business day after mailing, if given by mail. The Commission or the Consultant may, from time to time, change the address to which notices hereunder shall be sent by giving notice to the other party in the manner provided in this subparagraph.

g. **Severability.** In the event that any provisions of this Agreement shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

h. **Successors and Assigns.** Except as otherwise provided herein, this Agreement shall be binding upon and inure to the benefit of each of the parties hereto and their respective successors and assigns.

i. **Consultant's Authority.** Execution of this Agreement by the Consultant is authorized by a resolution of its Board of Directors, if a corporation, or similar governing document if a partnership or a joint venture, and the signatures(s) of each person signing on behalf of the Consultant have been made with complete and full authority to commit the Consultant to all terms and conditions of this Agreement, including each and every representation, certification and warranty contained or incorporated by reference in it.

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SCHEDULE B
SCOPE OF SERVICES

The Public Building Commission of Chicago requires the services of qualified and experienced environmental engineering consulting firms or teams to perform the following environmental work for the PBC – Categories A: Planning Phase Environmental Services, B: Design Phase Environmental Services, and C: Construction Phase Environmental services:

A. Planning Phase Environmental Services, including but not limited to:

1. Phase I Environmental Site Assessments (ESAs)
2. Phase II ESAs and Soil Management Assessments
3. Geophysical Surveys
    a. Electromagnetic Surveys
    b. Ground Penetrating Radar Surveys
4. Test Pit Excavation and Site Restoration
5. Environmental Grant Applications
6. Environmental Remediation Budget Preparation

B. Environmental Design Phase Services, including but not limited to:

1. Phase II ESAs
    a. Soil Boring and Groundwater Well Installation
    b. Soil, Groundwater, and Soil Vapor Sampling and Environmental Laboratory Analysis
    c. Additional Geophysical Surveys or Test Pitting Activities
2. IEPA Site Remediation Program Management
    a. Site Enrollment
    b. Comprehensive & Focused Site Investigation
    c. Technical Reporting
3. IEPA Leaking Underground Storage Tank Program Management
    a. UST Removal Oversight & Management
    b. Site Investigation
    c. Technical Reporting
4. Environmental Coordination and Management during Project Design
5. Bid Package Generation
    a. Preparation of Drawings and Specifications
    b. Design Meeting Participation
    c. Bid Meeting Participation
    d. Bid Assessment and Recommendation
    e. Meeting Minutes
    f. Bid Package Coordination
6. Environmental Grant Administration

C. Construction Phase Oversight Services, including but not limited to:

1. Contract Administration
2. Environmental Submittal Review and Approval
3. Remediation and Soil Management Oversight
4. Underground Storage Tank Removal and Management
5. Field Meetings Related to Environmental Matters
6. Soil Management and Remediation Report Generation

7. IEPA Site Remediation Program Management
8. Environmental Engineering and Remediation Tasks as requested by the PBC

General Detailed Scope of Services – Environmental Consulting Services

The Environmental Consultant (the "Consultant") will provide, on a Task Order basis, all Services required to complete Planning, Design and Construction Phase Environmental Services. The Consultant would enter into a Task Order with the PBC for services requested in a Request for Proposal issued by the PBC. The Consultant's Task Order would be executed in a Not to Exceed format, on a project by project basis. These services would be in connection with various public / capital projects the PBC manages. The Consultant must demonstrate the experience and capacity to conduct the following Scope of Services.

Category A. Planning Phase Environmental Services

1. Phase I Environmental Site Assessments (ESAs): Conduct Phase I Environmental Site Assessments in accordance with the ASTM E 1527-21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The federal rule recognizes the ASTM E 1527-21 standard as an acceptable guidance document for satisfying the "All Appropriate Inquires" (AAI).

2. Phase II ESAs and Soil Management Assessments: Conduct Phase II ESAs to investigate the finding of Phase I ESAs on sites proposed for development/redevelopment. Phase II Environmental Site Assessments will be performed in accordance with ASTM E1903-11 19 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, US EPA SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," and all applicable regulatory requirements to assess potential impact to if soil, groundwater, and/or soil vapor conditions. Conduct soil management assessments to investigate the impact associated with identified Potentially Impacted Properties (PIPs) in accordance with 35 Ill. Adm. Code 1100: Clean Construction or Demolition Debris Fill Operations and Uncontaminated Soil Fill Operation. Preparation of "uncontaminated soil" certifications in accordance with 35 Ill. Adm. Code 1100 based on the findings of soil assessment activities.

3. Geophysical Surveys: Conduct geophysical survey using electromagnetic and/or ground penetrating radar and reports to explore and evaluate sites for the possible presence of former underground storage tanks, foundations, or other subsurface structures.

4. Test Pit Excavation and Site Restoration: Conduct test-pit excavations using excavation equipment in locations of unexplained anomalies based on the results of the geophysical survey that may indicate the presence of underground storage tanks, foundations, or other subsurface structures. Site Restoration services would include the backfilling of test pits with moderate compaction effort and the restoration of sod, asphalt, concrete, or other surface materials required to be repaired by the PBC.

5. Environmental Grant Applications: Prepare local, state or federal grant applications on behalf of the PBC for environmental funding to support PBC projects.

6. Environmental Budget Preparation: Use information from Phase I ESAs, Phase II ESAs, geophysical surveys, and/or test pits as well as schematic project designs provided by PBC to prepare preliminary budgets for environmental remediation.

Category B. Environmental Design Phase Environmental Services

1. Phase II Environmental Site Assessments:

a. (Items 1a & 1b): Conduct Phase II Environmental Site Assessments in accordance with ASTM E1903-19 *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, US EPA SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical

Methods," and all applicable IEPA remediation program requirements to assess potential impact to soil, groundwater, and/or soil vapor associated with identified environmental conditions. Prepare reports to include a summary of Phase II ESA activities, findings as compared to appropriate regulatory requirements, and recommendations for further assessment, as necessary.

b. Additional Geophysical Surveys or Test Pitting Activities: See Category A: Tasks 3 and 4 for this Task description.

2. IEPA Site Remediation Program (SRP) Investigations and Reporting: The Consultant must be able to conduct the necessary work to secure a No Further Remediation (NFR) letter, which could include, but not limited to the following scope:

a. Enrollment of PBC sites into the IEPA SRP on an as needed basis. Completion and submittal of the SRP DRM-1 and DRM-2 Forms to the IEPA on behalf of the PBC.

b. Under the supervision of an Illinois Licensed Professional Engineer, preparation of a Focused or Comprehensive Site Investigation Report (F/CSIR) in accordance with 35 Ill. Adm. Code 740 that include creating environmental sampling work plans and conducting site investigations inclusive of sampling, analyses and field screening measurements to characterize the nature, concentration and extent of contaminants of concern based on Recognized Environmental Conditions (RECs) identified in the Phase I Environmental Site Assessment. Reporting generated during this task shall be subject to senior level technical review for technical accuracy and completeness.

c. Under the supervision of an Illinois licensed Professional Engineer, preparation of Remediation Objectives Report/Remedial Action Plan (ROR/RAP) in accordance with 35 Ill. Adm. Code 740 and 742. The RO Report would detail the proposed remediation objectives for the remediation site. The RAP would describe the proposed remediation strategy and evaluate its ability and effectiveness to achieve the remediation objectives proposed for the remediation site. Reporting generated during this task shall be subject to senior level technical review for technical accuracy and completeness.

d. Generate detailed remediation plans to manage identified environmental conditions in accordance with proposed development/redevelopment plans and prepare construction project documents for proposed remedial action.

e. Respond to PBC and IEPA comments to reviewed and submitted documents as appropriate.

f. Pay IEPA SRP Fees on behalf of PBC. These costs are reimbursed through subsequent Consultants invoices to PBC.

g. Prepare a Remedial Action Completion Report (RACR) to document the completed remedial action and would demonstrate compliance with IEPA approved remediation objectives. Reporting generated during this task shall be subject to senior level technical review for technical accuracy and completeness.

h. Coordinate with IEPA to obtain a draft and final No Further Remediation letter on behalf of the PBC. Assist the PBC in appropriately recording the No Further Remediation Letter.

3. IEPA Leaking Underground Storage Tank Program Management: The Consultant must be able to conduct the necessary work to secure a No Further Remediation (NFR) letter, which could include, but not limited to the following scope:

a. Provide assistance with UST removal contractor coordination and management for UST removal activities.

b. Provide oversight of UST removal activities in accordance with applicable City of Chicago Department of Public Health (CDPH)/Office of the State Fire Marshall (OSFM) regulatory and permit requirements.

c. Prepare 20-Day Certification and 45-Day Report, as necessary, in accordance with 35 Ill. Adm. Code 734, for identified leaking USTs. Reporting generated during this task shall be subject to senior level technical review for technical accuracy and completeness.

d. Conduct Stage 1, Stage 2, and Stage 3 site investigations in accordance with 35 IAC 734 to delineate impact from identified leaking USTs.

e. Under the supervision of an Illinois licensed Professional Engineer, preparation of Site Investigation Completion Report (SICR) and Corrective Action Plan (CAP) in accordance with 35 Ill. Adm. Code 734 and 742.

f. Generate detailed corrective action plans to manage identified environmental conditions in accordance with proposed development/redevelopment plans and prepare construction project documents for proposed corrective action.

g. Respond to PBC and IEPA comments to reviewed and submitted documents as appropriate.

h. Prepare a Corrective Action Completion Report (CACR) to document the completed corrective action and would demonstrate compliance with IEPA approved remediation objectives. Reporting generated during this task shall be subject to senior level technical review for technical accuracy and completeness.

i. Coordinate with IEPA to obtain a draft and final No Further Remediation letter on behalf of the PBC. Assist the PBC in appropriately recording the No Further Remediation Letter.

4. Environmental Coordination and Management during Project Design: The Consultant would work with the PBC PM and assigned consultants throughout the design of the proposed building and site to ensure that all design documents provide scope in accordance with applicable local, state, and federal regulations.

The Consultant would provide a key point of contact to coordinate all environmental design work for each PBC project. The Consultant's point of contact would review and comprehend existing Phase I and Phase II Environmental Site Assessments, surveys and previous work performed, and would be able to provide a detailed understanding of current environmental site conditions to PBC PMs and PBC assigned consultants (i.e. Architectural Firm and project team.) This individual would also provide detailed summaries of existing environmental conditions of PBC or client owned properties. These properties undergo transformation from their existing site conditions to newly constructed public facilities with adjoining features, including parking lots, green space, fountains, plazas, sidewalks, playgrounds, etc.

5. Bid Package Generation

a. Preparation of Drawings and Specifications: The Consultant would work closely with PBC Design PM's and assigned consultants to identify environmental site conditions, incorporate cost effective site remediation strategies as part of the design (if necessary), develop soil management, and/or disposal strategies that comply with current regulations. The Consultant would need to be able to ensure that the earthwork/soil management plans and specifications provide a clear line of responsibility and work procedures for both the Site Preparation and Building Construction Phases. The Consultant would also prepare or modify existing project specifications related to soil and water management that clearly identify the future site preparation and construction contractor obligations. These specifications should also ensure that the Contractor's environmental scope of work complies with the local, state and federal regulations and that their performances of such activities are a measure for payment.

The Consultant would ensure that the earthwork and soil management specifications and plans anticipate potential challenges such as discovery of footings, foundations, slabs, concrete, mixed fill, underground storage tanks, hydraulic lifts, etc., in order to minimize delays during construction. Using this information and the future design elements on the site, prepare complete earthwork/soil management documents/drawings for the work including Site Preparation and the Building Construction. These drawings would be generated using the PBC's Environmental Design Guidelines. Typically, the Consultant creates five total drafts of the environmental drawings for the purposes of this proposal (Site Preparation - 100%; Construction Documents – Design Deliverables, 60%, 90% and Bid Set).

For projects in the IEPA SRP, the Consultant would provide cost effective and green remediation options for site remediation and the installation of engineered barriers that are realistic and incorporate designs concurrent with IEPA cleanup objectives. Remediation design would be performed in accordance with Title 35 Ill. Adm. Code 740 and 742.

The Consultant would use PBC template specifications to modify for each project which include the management of uncontaminated material or contaminated soil on and off the site, controlling and managing storm and groundwater, dust control, underground storage tank removal, etc.

b. Design Meeting Participation: The Consultant would attend meetings as directed by the PBC and discuss environmental matters relative to the project. These meetings typically include but are not limited to:

i. Environmental Design Kick-Off Meeting

ii. Bi-Weekly Design Meetings

iii. Design Phase Utility Coordination Site Visit

iv. Design Milestone Meetings (60%, 90% and 100% set)

v. Design to Construction Meeting

c. Bid Meeting Participation: The Consultant would attend meetings relative to providing environmental design information throughout the bidding process including:

i. Pre-Bid

ii. Technical Review

iii. Construction Pre-Installation Meeting

d. Meeting Minutes: The Consultant would prepare meeting minutes for all environmental related meetings and provide the meeting minutes in a draft copy for PBC review and comment.

e. Bid Package Coordination: The Consultant would coordinate the development of all environmental bid documents with the Architect of Record and their project team including but not limited to the landscape, geotechnical, structural, and civil engineering professionals (the PBC has template specifications that can be modified for this task). The Consultant reviews all specifications generated by the AOR team related to backfill, earthwork, utilities, and landscaping for language continuity among all specification sets with an emphasis on language dealing with the management and/or remediation of environmentally impacted media or special soil management requirements.

6. Environmental Grant Administration: The Consultant would provide grant administration services, at the direction of the PBC, including, but not limited to:

a. Preparing grant applications

b. Generating environmental estimates as requested

c. Preparing grant reporting as required by the specific grant type

d. Meeting preparation and presentations to grant administrators

e. Preparing presentations for public meetings as well as community relations plans

f. Seeking out information requested, and filling forms required by the grant

Category C. Construction Phase Environmental Oversight Services

1. Contract Administration: The Consultant would provide contract administration activities to ensure all environmental site work is performed in accordance with the project design and specifications as well as in accordance with local, state, and federal environmental regulations.

2. Environmental Submittal Approvals: The Consultant would provide review, comment and approval on Contractor submittals related to environmental remediation work. The Consultant would be expected to review submittals related to the management of soil, storm, and groundwater on and off site; soil stockpiling; dust suppression, etc. The Consultant would review and collect copies of all trucking manifests concerning disposal of all materials and imported material documentation for compliance with project specifications.

3. Remediation and Soil Management Oversight: The Consultant would provide on-site environmental oversight as required throughout environmental remediation and soil management activities including, but not limited to, the excavation of contaminated soil and backfilling of materials (i.e. clay, topsoil, clean stone, etc.). Compile all load tickets, gate receipts, waste manifests, disposal records, analytical data, permits, field logs, photographs, and survey information from Contractor for inclusion in the final reporting and for PBC and client as directed.

4. Underground Storage Tank Management: The Consultant would provide Underground Storage Tank Management Services to assist the Contractors to remove underground storage tanks from PBC sites. See item B.3 for task related activities.

5. Field Meetings Related to Environmental Matters: The Consultant would attend project coordination and weekly meetings, via remote access, at PBC offices, or on the project site as required.

6. Soil Management and Environmental Remediation Report Generation: The Consultant would prepare weekly and bi-weekly environmental reports as well as a final soil management and remediation report as required by the PBC. The Consultant would provide a written summary of field activities, summary of any survey or other field measurements as well as photo-documentation of all soil-related activities. Soil related activities

include but are not limited to: uncontaminated soil reuse, uncontaminated soil disposal, contaminated soil disposal, imported fill material backfill and landscape installation, and engineered barrier placement.

7. Environmental Engineering and Remediation Tasks as requested by the PBC: The Consultant would perform environmental engineering tasks as requested by the PBC including but not limited to: environmental technical review; soil remediation; underground storage tank removal; public speaking; etc.as necessary to meet project and regulatory requirements.

The Commission reserves right to add, delete, modify, change, or otherwise amend the Services required to be performed by the Selected Respondent.

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SCHEDULE C
COMPENSATION OF THE CONSULTANT

C.1 CONSULTANT'S FEE

C.1.1 The Commission shall pay the Consultant for the satisfactory performance of the Services for all work included in each duly executed Task Order assigned by the Commission on in the amount specificed in each Task Order (Fee). The hourly rates attached herein represent the basis for each fee proposal from Consultant.

C.1.2. Consultant's Fee will include profit, overhead, general conditions, materials, equipment, computers, vehicles, office labor, field labor, insurance, deliverables, and any other costs incurred in preparation and submittal of deliverables including travel to and from Commission's job sites/meetings, cell phone, computer usage, vehicles, mileage, taxi fares, parking, tolls insurance, and any other costs incurred.

C.1.3. Should the Commission require additional services above and beyond those described in Schedule B, the Consultant will be required to submit a proposal, where the Commission reserves the right to negotiate, and the Commission must authorize approval of Consultant's agreement, in writing.

C.1.4. The Commission shall compensate the Consultant for Reimbursable Expenses that are approved by the Commission prior to being incurred. Reimbursable Expenses shall include actual expenditures for subcontractors, laboratory costs, and leased or rented equipment, as well as those expenditures as identified and approved by the Commission on a Task Order basis.

C.1.5. The Consultant's mark-up rates for the administration and oversight of subcontractors shall not exceed five percent of the subcontractor's invoice.

C.2. HOURLY RATES FOR CONSULTANT AND SUBCONSULTANT PERSONNEL

C.2.1 All Consultant and Subconsultant personnel along with the billable hourly rate are subject to the prior approval of the Commission. The hourly rates shall not include compensation for overtime pay or holiday pay.

C.2.2. Rates contained herein shall be enforceable for the term (and any subsequent option years exercised) of the agreement. Consultant may request, in writing to the Contract Officer, a request for a rate revision not less than 60 days at the end of each Calendar year. The request must be accompanied by justification by the Consultant. Revision or modifications of hourly rates shall be made at the sole discretion of the Commission.

C.3 METHOD OF PAYMENT

C.3.1. **Invoices.** The Consultant will submit invoices, via e-Builder**,** to the Commission for Services performed that will be paid in one lump sum after all Services required by each Task Order have been completed to the reasonable satisfaction of the Commission.

Each invoice must reference the contract number, task order number, project name and include reasonable detail to sufficiently describe the services performed. At its discretion, the Commission may require detail and data relating to Subconsultant costs. In accordance with the terms of the Agreement, the Consultant must maintain complete documentation of all costs incurred for review and audit by the Commission or its designated audit representative(s). Each invoice must be submitted in the format directed by the Commission. Invoices must be accompanied by a progress report in a format acceptable to the Commission. Such progress reports must identify any variances from budget or schedule and explain reasons for any such variance(s).

C.3.2. **Payment.** Payment will be processed within thirty (30) days after Commission receives an acceptable invoice from the Consultant.

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Specialty Consulting, Inc.
LOADED HOURLY RATES - ENVIRONMENTAL CONSULTING SERVICES
ENVIRONMENTAL ENGINEERING SERVICES - PS3080G

Complete the following Hourly Rate table and provide various hourly rates for the staff who will work on Category A, B and C type projects. The hourly rate shall include typical overhead (except the Reimbursable Expenses) for each staff member such as driving to and from PBC job sites or meetings, cell phone and computer usage, vehicles, mileage, taxi cab fares, parking, tolls, insurance, marketing and any other costs incurred.

	Job Title	Unit		Hourly Rates
Phase I and II Environmental Assessments/Design and Construction Management				
A	Principal	Per Hour	$	160.00
B	Environmental Engineer P.E.	Per Hour	$	115.00
C	Environmental Engineer	Per Hour	$	95.00
D	Geologist/Hydrologist	Per Hour	$	90.00
E	Certified Industrial Hygienist	Per Hour	$	125.00
F	Environmental Scientist	Per Hour	$	75.00
G	Building Inspector (Hazardous Waste)	Per Hour	$	80.00
H	Chemist	Per Hour	$	90.00
I	Environmental Communications Specialist	Per Hour	$	75.00
J	Project Manager	Per Hour	$	90.00
K	Senior Project Manager	Per Hour	$	110.00
L	Environmental Technician	Per Hour	$	80.00
M	Clerical/Administrative Staff	Per Hour	$	45.00
N	Drafting Technician	Per Hour	$	70.00
O	Civil Engineer	Per Hour	$	95.00
P	Director	Per Hour	$	120.00
Q	Toxicologist/Risk Assessor	Per Hour	$	120.00
R	Insert Other Title Here:	Per Hour	$	-
Environmental Design Services				
A	Environmental Engineer P.E.	Per Hour	$	115.00
B	CAD Specialist	Per Hour	$	70.00
C	Drafting Technician	Per Hour	$	55.00
D	Clerical/Administrative Staff	Per Hour	$	45.00
E	Engineer	Per Hour	$	95.00
F	Project Manager	Per Hour	$	90.00
G	Senior Project Manager	Per Hour	$	110.00
H	Director, Toxicologist/Risk Assessor	Per Hour	$	120.00

SCHEDULE D
INSURANCE REQUIREMENTS

The Consultant must provide and maintain at Consultant's own expense, until expiration or termination of the Agreement and during the time period following expiration if Consultant is required to return and perform any additional work, the minimum insurance coverage and requirements specified below, insuring all operations related to the Agreement.

D.1. INSURANCE TO BE PROVIDED

D.1.1. Workers' Compensation and Employers Liability

Workers' Compensation Insurance, as prescribed by applicable law covering all employees who are to provide a service under the Agreement and Employers Liability coverage with limits of not less than $1,000,000 each accident, illness, or disease.

D.1.2. Commercial General Liability (Primary and Umbrella)

Commercial General Liability Insurance or equivalent with limits of not less than $5,000,000 per occurrence for bodily injury, personal injury, and property damage liability. Coverage must include the following: All premises and operations, products/completed operations, separation of insureds, defense, and contractual liability. The Public Building Commission, the Board of Education of the City of Chicago, the City of Chicago, and each of their respective Board members, employees, elected and appointed officials, and representatives, and any other User Agency or Owner required by the Commission, must be named as Additional Insured on a primary, non- contributory basis for any liability arising directly or indirectly from the work.

If tank removal or excavation is to be performed, the contractor must include the following additional coverage: All premises and operations, products/completed operations (for minimum of two (2) years following project completion), explosion, collapse, underground, separation of insureds, defense, and contractual liability.

Subcontractors performing work for Consultant must maintain limits of not less than $1,000,000 per occurrence with the same terms herein.

D.1.3. Automobile Liability (Primary and Umbrella)

When any motor vehicles (owned, non-owned and hired) are used in connection with work to be performed, the Consultant must provide Automobile Liability Insurance, with limits of not less than $2,000,000 per occurrence for bodily injury and property damage. The Public Building Commission, the Board of Education of the City of Chicago, the City of Chicago, and each of their respective Board members, employees, elected and appointed officials, and representatives, and any other User Agency or Owner required by the Commission must be named as Additional Insured on a primary, non-contributory basis.

Subcontractors performing work for Consultant must maintain limits of not less than $1,000,000 per occurrence with the same terms herein.

D.1.4. Professional Liability

When any professional consultants perform work in connection with this Contract, Professional Liability Insurance covering acts, errors, or omissions must be maintained with limits of not less than $2,000,000. The policy will include coverage for wrongful acts, including but not limited to errors, acts or omissions, in the rendering or failure to render professional services resulting in a pollution incident. When policies are renewed or replaced, the policy retroactive date must coincide with, or precede, start of work on the Contract. A claims-made policy, which is not renewed or replaced, must have an extended reporting period of two (2) years.
Subcontractors performing work for Contractor must maintain limits of not less than $1,000,000 per occurrence with the same terms herein.

D.1.5 Property

The Consultant is responsible for all loss or damage to personal property (including but not limited to materials, equipment, tools, and supplies) owned, rented, or used by Consultant.

D.1.6 Valuable Papers

When any plans, designs, drawings, data, media, or other documents are produced or used under this Agreement, Valuable Papers Insurance shall be maintained in an amount to insure against any loss whatsoever, and shall have limits sufficient to pay for the re-creation and reconstruction of such records.

D.1.7 Contractors Pollution Liability

Contractors Pollution coverage is required with limits of not less than $2,000,000 per occurrence for any portion of the services, which may entail, exposure to any pollutants, whether in the course of sampling, remedial work or any other activity under this contract. The contractor pollution liability policy will provide coverage for sums that the insured become legally obligated to pay as loss as a result of claims for bodily injury, property damage and/or clean-up costs caused by any pollution incident arising out of the Work including remediation operations, transportation of pollutants, owned and non-owned disposal sites and any and all other activities of Contractor and its subcontractors. Pollution incidents will include, but not be limited to, the discharge, dispersal, release or escape of any solid, liquid, gaseous or thermal irritant or contaminant, including but not limited smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, medical waste, waste materials, lead, asbestos, silica, hydrocarbons and microbial matter, including fungi, bacterial or viral matter which reproduces through release of spores or the splitting of cells or other means, including but not limited to, mold, mildew and viruses, whether or not such microbial matter is living.

The policy will be maintained for a period of three years after final completion and include completed operations coverage. The policy will include The Public Building Commission, the Board of Education of the City of Chicago, the City of Chicago, and each of their respective Board members, employees, elected and appointed officials, and representatives, and any other User Agency or Owner required by the Commission as Additional Insured on a primary and non-contributory basis for on going and completed operations.

Subcontractors performing work for Contractor must maintain limits of not less than $1,000,000 per occurrence with the same terms herein.

D.1.8 Railroad Protective Liability

When any work is to be done adjacent to or on railroad or transit property, Consultant must provide or cause to be provided, with respect to the operations that Consultant or subcontractors perform, Railroad Protective Liability Insurance when required by the railroad or transit entity, in the name of railroad or transit entity. The policy must have limits of not less than the requirement of the operating railroad/transit entity for losses arising out of injuries to or death of all persons, and for damage to or destruction of property, including the loss of use thereof.

In all instances when work is to be performed within fifty (50) feet of a right-of-way, Consultant and subconsultants performing work in the area are required to endorse their liability policies with form CG 24 17 to eliminate the exclusion for work within fifty (50) feet of the rail right-of-way. Evidence of this endorsement must be submitted with the Certificate of Insurance required below.

D.2. ADDITIONAL REQUIREMENTS

The Consultant must furnish the Public Building Commission Procurement Department, Richard J. Daley Center, Room 200, Chicago, IL 60602, original Certificates of Insurance, or such similar evidence, to be in force on the date of this Agreement, and Renewal Certificates of Insurance, or such similar evidence, if any insurance coverage has an expiration or renewal date occurring during the term of this Agreement. The Consultant must submit evidence of insurance to the Commission before award of Agreement. The receipt of any certificate does not constitute agreement by the Commission that the insurance requirements in the Agreement have been fully met or that the insurance policies indicated on the certificate are in compliance with all Agreement requirements. The failure of the Commission to obtain certificates or other insurance evidence from Consultant is not a waiver by the Commission of any requirements for the Consultant to obtain and maintain the specified coverage. The Consultant will advise all insurers of the Agreement provisions regarding insurance. Non conforming insurance does not relieve Consultant of the obligation to provide insurance as specified in this Agreement. Non-fulfillment of the insurance conditions may constitute a breach of the Agreement, and the Commission retains the right to stop work until proper evidence of insurance is provided, or the Agreement may be terminated.

The Commission reserves the right to obtain copies of insurance policies and records from the Consultant and/or its subcontractors at any time upon written request.

The insurance must provide for 30 days prior written notice to be given to the Commission if any policies are canceled, substantially changed, or non-renewed.

Any deductibles or self-insured retentions on referenced insurance must be borne by Consultant.

The Consultant hereby waives and agrees to require their insurers to waive their rights of subrogation against the Commission, the Board of Education of the City of Chicago, the City of Chicago, and any other User Agency or Owner and each of their respective Board members, employees, elected and appointed officials, and representatives.

The insurance coverage and limits furnished by Consultant in no way limit the Consultant's liabilities and responsibilities specified within the Agreement or by law.

Any insurance or self-insurance programs maintained by the Commission, the Board of Education of the City of Chicago, the City of Chicago and any other User Agency or Owner do not contribute with insurance provided by the Consultant under the Agreement.

The required insurance to be carried is not limited by any limitations expressed in the indemnification language in this Agreement or any limitation placed on the indemnity in the Agreement given as a matter of law.

If Consultant is a joint venture or limited liability company, the insurance policies must name the joint venture or limited liability company as a named insured

The Consultant must require all its subcontractors to provide the insurance required in this Agreement, or Consultant may provide the coverage for its subcontractors. All subcontractors are subject to the same insurance requirements of Consultant unless otherwise specified in this Agreement.

If Consultant or its subcontractors desire additional coverage, the party desiring the additional coverage is responsible for the acquisition and cost.

The Commission's Risk Management Department maintains the rights to modify, delete, alter or change these requirements.

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ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 2/1/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Carrie Gentile
Financial Renaissance 1016 W. Jackson Blvd Suite 407 Chicago IL 60607	PHONE (A/C, No, Ext): (312) 492-6900 FAX (A/C, No): E-MAIL ADDRESS: cgentile@finren.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : NAUTILUS INS CO	17370
INSURER B : GREAT DIVIDE INS CO	25224
INSURER C : OHIO SECURITY INSURANCE CO	24082
INSURER D : AXIS INSURANCE CO	26620
INSURER E : KEY RISK INS CO	10885
INSURER F :	

INSURED

Specialty Consulting, Inc.
2942 W. Van Buren Street
Chicago IL 60612

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ Pollution $2,000,000 Occurrence ☒ Prof Liab $2,000,000 Claims-Made GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☐ LOC ☐ OTHER:	Y	Y	ECP2028266-15	02/04/2024	02/04/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 100,000 $ 5,000 $ 2,000,000 $ 2,000,000 $ 2,000,000
E	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY	Y	Y	BAP2028262-15	02/04/2024	02/04/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A,D	☐ UMBRELLA LIAB ☒ OCCUR ☒ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $			FFX2028267-15/ELZ6476250120	02/04/2024	02/04/2025	EACH OCCURRENCE AGGREGATE AXIS Excess-Agg/Each	$ 3,000,000 $ 3,000,000 $ 5,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N: N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	WCA2028261-15	02/04/2024	02/04/2025	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	ILLINOIS $ 1,000,000 $ 1,000,000 $ 1,000,000
C	Valuable Papers & Records Coverage Replacement Cost, $1,000 Deductible			BFS56848630	10/16/2023	10/16/2024	On Premises Limit Off Premises Limit Limits Per Occurrence	$250,000 $25,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Environmental Engineering Services #PS3080G
The Public Building Commission, The Board of Education of the City of Chicago, the City of Chicago and each of their respective Board members, employees, elected and appointed officials and representatives and any other User Agency or Owner required by the Commission is included as Additional Insured on a Primary Non-Contributory Basis on General Liability, Pollution Liability & Auto Liability, when required by written contract. Waiver of Subrogation applies in favor of Additional Insureds on General Liability, Pollution Liability, Auto Liability and Workers Compensation, when required by written contract. Excess policies follow form & extend over Pollution & Professional Liability. 30-day notice of cancellation, except 10-day notice for non-payment of Premium.

CERTIFICATE HOLDER

Public Building Commission Procurement Department
Richard J Daley Center
50 West Washington St., Room 200
Chicago, IL 60602

APPROVED
JLB
5/8/2024

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Joseph Orlando

COI_SpecialtyConsulting_PS3080G_EnvEngSvcs_JLB_20241016

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED -- OWNERS, LESSEES OR CONTRACTORS AUTOMATIC STATUS – ONGOING OPERATIONS – COVERAGE A, B, D.1 & D.4

Policy Number	Policy Effective Date	Policy Expiration Date	Endorsement Effective Date
ECP2028266-15	2/4/2024	2/4/2025	2/4/2024

This endorsement modifies insurance provided under the following:

ENVIRONMENTAL COMBINED POLICY

I. **SECTION III – WHO IS AN INSURED** is amended to include as an additional **insured**:

1. Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement, in effect during this **policy period**, that such person or organization be added as an additional **insured** on this policy; and

2. Any other person or organization you are explicitly required to add as an additional **insured** under the contract or agreement described in Paragraph **1.** above.

Such contract or agreement must be executed and in effect prior to the performance of **your work** which is the subject of such contract or agreement.

Such person(s) or organization(s) is an additional **insured** only with respect to liability for **bodily injury** or **property damage** under **SECTION I – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY, Coverage D.1 – Contractors Pollution Legal Liability** and **Coverage D.4 – Microbial Substance Contractors Pollution Liability,** or personal injury or advertising injury under **SECTION I - COVERAGE B – PERSONAL AND ADVERTISING INJURY LIABILITY** directly caused by:

a. Your acts or omissions; or
b. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional **insured** described in Paragraph **1.** or **2.** above.

However, the insurance afforded to such additional **insured** described above:

a. Only applies to the extent permitted by law; and
b. Will not be broader than that which you are required by the contract or agreement to provide for such additional **insured**, and
c. Will not extend beyond that which is provided to you in this policy.

A person's or organization's status as an additional **insured** under this endorsement ends when your operations for the person or organization described in Paragraph **1.** above are completed.

II. With respect to the insurance afforded to these additional **insureds**, the following additional exclusions apply:

This insurance does not apply to:

a. **Bodily injury**, **property damage** or **personal and advertising injury** arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

(1) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
(2) Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the **claims** against any **insured** allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that **insured**, if the **occurrence** which caused the **bodily injury** or **property damage**, or the offense which caused the **personal and advertising injury**, involved the rendering of, or the failure to render any professional architectural, engineering or surveying services.

b. **Bodily injury** or **property damage** occurring after:

(1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional **insured**(s) at the location of the **covered operations** has been completed; or

(2) That portion of **your work** out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

III. With respect to the insurance afforded to these additional **insureds**, the following is added to **SECTION V – LIMITS OF INSURANCE**:

The most we will pay on behalf of the additional **insured** is the amount of insurance:

1. Required by the contract or agreement described in Paragraph **I.1.**; or
2. Available under the applicable limits of insurance;

whichever is less.

This endorsement shall not increase the applicable limits of insurance.

IV. With respect to the insurance afforded to these additional **insureds**, the following is added to **SECTION VI – REPORTING, DEFENSE, SETTLEMENT & COOPERATION**:

1. Duties -- Additional Insured

An additional **insured** must see to it that:

a. We are notified in writing as soon as practicable of an **occurrence** or offense which may result in a **claim** or **suit;**
b. We receive written notice of a **claim** or **suit** as soon as practicable; and
c. A request for defense and indemnity of the **claim** or **suit** will promptly be brought against any policy issued by another insurer under which the additional **insured** may be an insured in any capacity. This provision does not apply to insurance on which the additional **insured** is a **Named Insured**, if the contract or agreement requires that this coverage be primary and noncontributory.

V. **SECTION VII – CONDITION 10. – Other Insurance** is amended by the addition of the following which supersedes any provision to the contrary:

Primary And Noncontributory Insurance

This insurance is primary to and will not seek contribution from any other insurance available to a person(s) or organization(s) included as an additional **insured** under this endorsement provided that:

1. The additional **insured** person(s) or organization(s) is a **Named Insured** under such other insurance; and
2. You have agreed in writing in a contract or agreement, in effect during this **policy period**, that this insurance would be primary and would not seek contribution from any other insurance available to the additional **insured** person(s) or organization(s). Such contract or agreement must be executed and in effect prior to the performance of **your work** which is the subject of such contract or agreement.

However, this provision does not apply if the other insurance available to the person(s) or organization(s) included as an additional **insured** is Owners and Contractors Protective Liability, Railroad Protective Liability, or similar project-specific, primary insurance.

VI. This endorsement does not apply to an additional **insured** which has been added to this policy by an endorsement showing the additional **insured** in a **SCHEDULE** of additional **insureds**, and which endorsement applies to that designated additional **insured**.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY SHALL APPLY AND REMAIN UNCHANGED.

Specialty Consulting, Inc.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED -- OWNERS, LESSEES OR CONTRACTORS AUTOMATIC STATUS – COMPLETED OPERATIONS – COVERAGE A, D.1 & D.4

Policy Number	Policy Effective Date	Policy Expiration Date	Endorsement Effective Date
ECP2028266-15	2/4/2024	2/4/2025	2/4/2024

This endorsement modifies insurance provided under the following:

ENVIRONMENTAL COMBINED POLICY

I. **SECTION III – WHO IS AN INSURED** is amended to include as an additional **insured**:

1. Any person or organization for whom you have performed operations when you and such person or organization have agreed in writing in a contract or agreement, in effect during this **policy period**, that such person or organization be added as an additional **insured** on this policy; and

2. Any other person or organization you are explicitly required to add as an additional **insured** under the contract or agreement described in Paragraph **1.** above.

Such contract or agreement must be executed and in effect prior to the performance of **your work** included in the **products-completed operations hazard** which is the subject of such contract or agreement.

Such person(s) or organization(s) is an additional **insured** only with respect to liability for **bodily injury** or **property damage** under **SECTION I – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY, Coverage D.1 – Contractors Pollution Legal Liability** and **Coverage D.4 – Microbial Substance Contractors Pollution Liability,** directly caused by **your work** performed for the additional **insured** described in Paragraph **1.** or **2.** above, and included in the **products-completed operations hazard**.

However, the insurance afforded to such additional **insured** described above:

a. Only applies to the extent permitted by law; and
b. Will not be broader than that which you are required by the contract or agreement to provide for such additional **insured**; and
c. Will not extend beyond that which is provided to you in this policy.

II. With respect to the insurance afforded to these additional **insureds**, the following additional exclusions apply:

This insurance does not apply to:

a. **Bodily injury** or **property damage** arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

(1) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
(2) Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the **claims** against any **insured** allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that **insured**, if the **occurrence** which caused the **bodily injury** or **property damage** involved the rendering of, or the failure to render any professional architectural, engineering or surveying services.

III. With respect to the insurance afforded to these additional **insureds**, the following is added to **SECTION V – LIMITS OF INSURANCE**:

The most we will pay on behalf of the additional **insured** is the amount of insurance:

1. Required by the contract or agreement described in Paragraph **I.1.**; or
2. Available under the applicable limits of insurance;

whichever is less.

This endorsement shall not increase the applicable limits of insurance.

IV. With respect to the insurance afforded to these additional **insureds**, the following is added to **SECTION VI –**

REPORTING, DEFENSE, SETTLEMENT & COOPERATION:

1. **Duties -- Additional Insured**

   An additional **insured** must see to it that:

   a. We are notified in writing as soon as practicable of an **occurrence** which may result in a **claim** or **suit;**
   b. We receive written notice of a **claim** or **suit** as soon as practicable; and
   c. A request for defense and indemnity of the **claim** or **suit** will promptly be brought against any policy issued by another insurer under which the additional **insured** may be an insured in any capacity. This provision does not apply to insurance on which the additional **insured** is a **Named Insured**, if the contract or agreement requires that this coverage be primary and noncontributory.

V. **SECTION VII – CONDITION 10. – Other Insurance** is amended by the addition of the following which supersedes any provision to the contrary:

Primary And Noncontributory Insurance

This insurance is primary to and will not seek contribution from any other insurance available to a person(s) or organization(s) included as an additional **insured** under this endorsement provided that:

1. The additional **insured** person(s) or organization(s) is a **Named Insured** under such other insurance; and
2. You have agreed in writing in a contract or agreement, in effect during this **policy period**, that this insurance would be primary and would not seek contribution from any other insurance available to the additional **insured** person(s) or organization(s). Such contract or agreement must be executed and in effect prior to the performance of **your work** included in the **products-completed operations hazard** which is the subject of such contract or agreement.

However, this provision does not apply if the other insurance available to the person(s) or organization(s) included as an additional **insured** is Owners and Contractors Protective Liability, Railroad Protective Liability, or similar project-specific, primary insurance.

VI. This endorsement does not apply to an additional **insured** which has been added to this policy by an endorsement showing the additional **insured** in a **SCHEDULE** of additional **insureds**, and which endorsement applies to that designated additional **insured**.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY SHALL APPLY AND REMAIN UNCHANGED.

Specialty Consulting, Inc.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – ARCHITECTS, ENGINEERS OR SURVEYORS NOT ENGAGED BY THE NAMED INSURED – COVERAGE A, B, D.1 & D.4

Policy Number	Policy Effective Date	Policy Expiration Date	Endorsement Effective Date
ECP2028266-15	2/4/2024	2/4/2025	2/4/2024

This endorsement modifies insurance provided under the following:

ENVIRONMENTAL COMBINED POLICY

SCHEDULE

Name(s) Of Additional Insured Engineer(s), Architect(s) Or Surveyor(s) Not Engaged By The Named Insured:	As required by the written contract prior to the commencement of work performed by the named insured.

I. **SECTION III – WHO IS AN INSURED** is amended to include as an additional **insured** the architects, engineers or surveyors shown in the **SCHEDULE**, while not engaged by you, are explicitly required under a written contract or written agreement, in effect during this **policy period**, to be added as additional **insureds** to this policy, but only with respect to liability for **bodily injury** or **property damage** under **SECTION I – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY, Coverage D.1 – Contractors Pollution Legal Liability** and **Coverage D.4 – Microbial Substance Contractors Pollution Liability,** or **personal and advertising injury** under **SECTION I – COVERAGE B – PERSONAL AND ADVERTISING INJURY LIABILITY** directly caused by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations performed by you or on your behalf.

Such contract or agreement must be executed and in effect prior to your performance of such ongoing operations.

However:

1. The insurance afforded to such additional **insured** only applies to the extent permitted by law; and
2. We will not extend any insurance coverage to such additional insured that is not provided to you in this policy; and
3. The insurance afforded to such additional **insured** will not be broader than that which you are required by the contract or agreement to provide for such additional **insured**.

II. With respect to the insurance afforded to these additional **insureds**, the following additional exclusion applies:

This insurance does not apply to **bodily injury**, **property damage** or **personal and advertising injury** arising out of the rendering of or failure to render any professional services, including:

1. The preparing, approving, or failing to prepare or approve, maps, drawings, opinions, reports, surveys, change orders, designs or specifications; or
2. Supervisory, inspection or engineering services.

This exclusion applies even if the claims against any **insured** allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that **insured**, if the **occurrence** which caused the **bodily injury** or **property damage**, or the offense which caused the **personal and advertising injury**, involved the rendering of or the failure to render any professional services.

III. With respect to the insurance afforded to these additional **insureds**, the following is added to **SECTION V – LIMITS OF INSURANCE**:

The most we will pay on behalf of the additional **insured** is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable limits of insurance;

whichever is less.

This endorsement shall not increase the applicable limits of insurance.

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IV. **SECTION VII – CONDITION 10. – Other Insurance** is amended by the addition of the following which supersedes any provision to the contrary:

Primary And Noncontributory Insurance

This insurance is primary to and will not seek contribution from any other insurance available to the additional **insured** architects, engineers or surveyors shown in the **SCHEDULE** to this endorsement provided that:

1. The additional **insured** architect, engineer or surveyor is a **Named Insured** under such other insurance; and
2. It is explicitly required under a written contract or written agreement, in effect during this **policy period**, that this insurance would be primary and would not seek contribution from any other insurance available to the additional **insured** architect, engineer or surveyor. Such contract or agreement must be executed and in effect prior to the performance of your ongoing operations, which are the subject of such contract or agreement.

However, this provision does not apply if the other insurance available to the person(s) or organization(s) included as an additional **insured** is Owners and Contractors Protective Liability, Railroad Protective Liability, or similar project-specific, primary insurance.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY SHALL APPLY AND REMAIN UNCHANGED.

Specialty Consulting, Inc.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CONTRACTUAL LIABILITY - RAILROADS

Policy Number	Policy Effective Date	Policy Expiration Date	Endorsement Effective Date
ECP2028266-15	2/4/2024	2/4/2025	2/4/2024

This endorsement modifies insurance provided under the following:

ENVIRONMENTAL COMBINED POLICY

SCHEDULE

Scheduled Railroad(s):	Designated Job Site(s):
As required by written contract prior to work being performed.	As required by written contract prior to work being performed.

I. With respect to operations performed for, or affecting, a Scheduled Railroad at a Designated Job Site, definition number **26. Insured contract** in **SECTION IX – DEFINITIONS** is deleted and replaced by the following:

26. Insured contract means:

For **COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY** and **COVERAGE B – PERSONAL AND ADVERTISING INJURY LIABILITY:**

a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire to premises while rented to you or temporarily occupied by you with permission of the owner is not an **insured contract**;

b. A sidetrack agreement;

c. Any easement or license agreement;

d. An obligation, as required by ordinance, to indemnify a municipality, except in connection with work for a municipality;

e. An elevator maintenance agreement;

f. That part of any other contract or agreement pertaining to your business (including an indemnification of a municipality in connection with work performed for a municipality) under which you assume the tort liability of another party to pay for **bodily injury** or **property damage** to a third person or organization. Tort liability means a liability that would be imposed by law in the absence of any contract or agreement.

Paragraph **f.** does not include that part of any contract or agreement:

(1) That indemnifies an architect, engineer or surveyor for injury or damage arising out of:

(a) Preparing, approving or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or

(b) Giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage;

(2) Under which the **insured**, if an architect, engineer or surveyor, assumes liability for an injury or damage arising out of the **insured's** rendering or failure to render **professional services**, including those listed in Paragraph **(1)** above and supervisory, inspection, architectural or engineering activities.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY SHALL APPLY AND REMAIN UNCHANGED.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED CONSTRUCTION PROJECT(S) GENERAL AGGREGATE LIMIT - COVERAGE A

Policy Number	Policy Effective Date	Policy Expiration Date	Endorsement Effective Date
ECP2028266-15	2/4/2024	2/4/2025	2/4/2024

This endorsement modifies insurance provided under the following:

ENVIRONMENTAL COMBINED POLICY

SCHEDULE

Designated Construction Project(s):	Designated Construction Project Limit:
Each of your projects away from premises owned or rented to you, performed during the policy period when a Designated per Project Aggregate Limit is required in a written contractual agreement.	$2,000,000.

I. For all amounts which the **insured** becomes legally obligated to pay as **damages** caused by **occurrences** under **SECTION I – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY** which can be attributed only to ongoing operations as shown in the **SCHEDULE** above:

1. A separate Designated Construction Project Limit applies to each designated construction project and that limit is the lesser of:
- **a.** the Designated Construction Project Limit indicated in the **SCHEDULE**; or
- **b.** the amount of the General Aggregate Limit shown in the Declarations.

2. The Designated Construction Project Limit is the most we will pay for the sum of all **damages** under **SECTION I – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY**, except **damages** because of **bodily injury** or **property damage** included in the **products-completed operations hazard**, regardless of the number of:
- **a. Insureds**;
- **b. Claims** made or **suits** brought; or
- **c.** Persons or organizations making **claims** or bringing **suits**.

3. Any payments made under **SECTION I – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY** for damages shall reduce the Designated Construction Project Limit for that designated construction project. Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Designated Construction Project Limit, except as affected by the Designated Construction Project Aggregate Limit described in **5.b.** below.

4. The limits shown in the Declarations for Each Occurrence and Damage to Premises Rented to You continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Designated Construction Project Limit.

5. a. The Designated Construction Project General Aggregate Limit is the most we will pay for all damages under the Designated Construction Project Limit, described in **1.** and **2.** above.
- **b.** Regardless of the number of construction projects or designated construction projects covered under this policy, the most we will pay as the Designated Construction Project General Aggregate is $5,000,000.

II. For all amounts which the **insured** becomes legally obligated to pay as damages caused by **occurrences** under **SECTION I –COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY** which can be attributed only to ongoing operations at the Designated Construction Project(s) shown in the **SCHEDULE** above:

1. Any payments made under **SECTION I –COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY** for damages shall reduce the amount available under the General Aggregate Limit or the Products Completed Operations Aggregate Limit, whichever is applicable; and

2. Such payments shall not reduce any Designated Construction Project General Aggregate Limit

III. When coverage for liability arising out of the **products-completed operations hazard** is provided, any payments for damages because of **bodily injury** or **property damage** included in the **products-completed operations hazard** will reduce the Products-Completed Operations Aggregate Limit, and not reduce the General Aggregate Limit nor the Designated Construction Project General Aggregate Limit.

IV. If the applicable designated construction project has been abandoned, delayed, or abandoned and then restarted, or if the authorized contracting parties deviate from plans, blueprints, designs, specifications or timetables, the project will still be deemed to be the same construction project.

V. The provisions of **SECTION V – LIMITS OF INSURANCE** not otherwise modified by this endorsement shall continue to apply as stipulated.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY SHALL APPLY AND REMAIN UNCHANGED.

Specialty Consulting, Inc.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF SUBROGATION
(TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US)
AUTOMATIC STATUS – COVERAGE A, B & D

Policy Number	Policy Effective Date	Policy Expiration Date	Endorsement Effective Date
ECP2028266-15	2/4/2024	2/4/2025	2/4/2024

This endorsement modifies insurance provided under the following:

ENVIRONMENTAL COMBINED POLICY

I. The following is added to Paragraph **17. Subrogation** of **SECTION VII – CONDITIONS:**

We waive any right of recovery against any person(s) or organization(s) because of payments we make under **COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY**, **COVERAGE B – PERSONAL AND ADVERTISING INJURY LIABILITY**, and **COVERAGE D – CONTRACTORS POLLUTION LIABILITY** under this policy.

Such waiver by us applies only if:

1. The **insured** has agreed in writing in a contract or agreement with such person(s) or organization(s) to waive its right of recovery; and
2. The **insured** has waived its right of recovery against such person(s) or organization(s) prior to loss.

This waiver does not apply in any jurisdiction where such waiver is held to be illegal or against public policy or in any situation where the person(s) or organization(s) against whom subrogation is to be waived is found to be solely negligent.

This endorsement does not apply to any person(s) or organization(s) designated in a **SCHEDULE** of person(s) or organization(s) against whom rights of recovery have been waived.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY SHALL APPLY AND REMAIN UNCHANGED.

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WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY
WC 00 03 13 04 84

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

Any Principal wherein such waiver has been included before loss as part of a contractual undertaking by the Named Insured.

ENDORSEMENT

This endorsement forms a part of the policy to which it is attached. Please read it carefully.

BUSINESS AUTO – ADDITIONAL INSURED WHEN REQUIRED BY CONTRACT OR AGREEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

Section II – Liability Coverage A. – Coverage, 1. Who is an Insured, is amended to add:

d. Any person or organization to whom you become obligated to include as an additional insured under this policy, as a result of any contract or agreement you enter into, excluding contracts or agreements for professional services, which requires you to furnish insurance to that person or organization of the type provided by this policy, but only with respect to liability arising out of your operations or premises owned by or rented to you. However, the insurance provided will not exceed the lesser of:

1. The coverage and/or limits of this policy; or

2. The coverage and/or limits required by said contract or agreement.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY SHALL APPLY AND REMAIN UNCHANGED.

COMMERCIAL AUTO
CA 04 49 11 16

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

PRIMARY AND NONCONTRIBUTORY - OTHER INSURANCE CONDITION

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

A. The following is added to the **Other Insurance** Condition in the Business Auto Coverage Form and the **Other Insurance – Primary And Excess Insurance Provisions** in the Motor Carrier Coverage Form and supersedes any provision to the contrary:

This Coverage Form's Covered Autos Liability Coverage is primary to and will not seek contribution from any other insurance available to an "insured" under your policy provided that:

1. Such "insured" is a Named Insured under such other insurance; and

2. You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to such "insured".

B. The following is added to the **Other Insurance** Condition in the Auto Dealers Coverage Form and supersedes any provision to the contrary:

This Coverage Form's Covered Autos Liability Coverage and General Liability Coverages are primary to and will not seek contribution from any other insurance available to an "insured" under your policy provided that:

1. Such "insured" is a Named Insured under such other insurance; and

2. You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to such "insured".

COMMERCIAL AUTO
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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US (WAIVER OF SUBROGATION) – AUTOMATIC WHEN REQUIRED BY WRITTEN CONTRACT OR AGREEMENT

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

The **Transfer Of Rights Of Recovery Against Others To Us** Condition does not apply to any person(s) or organization(s) for whom you are required to waive subrogation with respect to the coverage provided under this Coverage Form, but only to the extent that subrogation is waived:

A. Under a written contact or agreement with such person(s) or organization(s); and

B. Prior to the "accident" or the "loss."

SCHEDULE E
KEY PERSONNEL

(ATTACHED HERETO AND INCORPORATED HEREIN)

KEY PERSONNEL MATRIX

STAFF				EXPERIENCE							
				Experience in Category A	Experience in Category B	Experience in Category C	10 years experience in IEPA SRP project management	7 years experience in managing LUST in Illinois	Owners Representative Services Experience	Environmental Grant Administration Experience	QA/QC Technical Review
NAME	**CURRENT POSITION**	**YEARS OF EXP. IN INDUSTRY**	**YEARS WITH FIRM**								
Arturo Saenz	Project Executive	34	21	X	X	X			X		X
Robert Suda, PG, CPESC	Program Manager	33	15	X	X	X	X	X	X	X	X
Chrystine Shelton	Project Manager	16	1	X	X	X	X	X	X	X	X
Patricia Bryan, PG	Project Manager	35	9	X	X	X	X	X	X	X	X
Rosann Park Jones, PG	Project Manager	23	9	X	X	X	X	X	X	X	X
Hans D. Upadhyay, PhD, PG	QA/QC Manager	40	21	X	X	X	X	X	X		X
Shawn Niaki, PhD, PE	Principal Engineer	47	21	X	X	X	X	X	X	X	X
Brandon Gorte, PE	Sr. Engineer	19	4	X	X	X	X	X	X		X
Linda Beran, PG	Sr. Geologist	25	4	X	X	X		X	X		X
Caleb Ratz	Sr. Geologist	7	1	X	X				X		
Fred Martinez	Sr. Scientist	35	3	X	X	X	X	X	X		X
Allison Krause	Staff Geologist	3	2	X	X	X					
Martha Madera	Staff Scientist	3	3	X	X	X					
Janny Barrera	Staff Geologist	4	3	X	X	X					
Micaela Presutti	Staff Geologist	3	3	X	X	X					
Keegan Rusheinski	Staff Scietist	3	3	X	X	X					
Riah Dunton	CADD Designer	25	1	X	X	X					
Carlos Torres, CHST	Safety Manager	11	1								

Janny Barrera

Janny Barrera, Environmental Scientist

Ms. Barrera is an Environmental Scientist with four years of experience in construction and remediation oversight. She also has experience in field sampling and monitoring. Ms. Barrera also has experience with report writing for Phase I/II Environmental Site Assessments. While working on site she has prepared field documentation including, waste manifests, and Field Inspector Daily Reports. She has experience in the collection of soil samples for site investigations.

Education
Bachelor of Liberal Arts and Sciences, Earth, and Environmental Science - 2019 University of Illinois at Chicago
Chicago, IL

Experience
4 Years

Expertise and Specialized Training
Construction Oversight
Field Documentation
Soil Sampling
Water Sampling

Licenses, Registrations & Certifications
OSHA 40-Hour HAZWOPER Certificate
OSHA 30-Hour Outreach Training Program - Construction

Relevant Experience

Chicago Housing Authority Site Remediation/Engineered Barrier Installation Oversight – Chicago, IL (May 2023- Present)
Environmental Scientist
Conducted field oversight, verification, and documentation of quantities for the remove of contaminated soils associated with construction and remediation activities. This included the verification of quantities of soil removed and backfill delivered to site, and field screening as clean soil arrives at the site for indications of contamination. Collect soil and water samples as required to satisfy requirements of the IEPA SRP documents.

Chicago Housing Authority Supplemental Site Investigations – Chicago, IL (March 2023 – Present)
Environmental Scientist
Conducted supplemental site investigations of various CHA properties in order to investigate previous findings of environmental concern at the properties. Oversaw geotechnical drilling while filling out boring logs and well installation. Collected soil samples where PID readings were the highest and water samples. Also conducted hydro conductivity testing and assisted in reporting.

SET Environmental Phase I – Cook County Medical Examiners Building (February 2023)
Completed Phase I Environmental Site Assessments for SET Environmental. The assessment included thoroughly investigating Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site

visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. A detailed report was completed, including the findings and recommendations as related to the Subject Property.

Commonwealth Edison Cleanup and Restoration – Aurora, IL (December 2022 – January 2023)

Environmental Scientist

Conducted cleanup and restoration of the existing right-of-way (ROW) at 250 E. Sullivan Road, Aurora, Illinois. Responsibilities included waste profiling, site survey and layout; coordinate and manage the project activities performed during execution of the scope of work; Field Inspector Daily Reports, and Job Safety Briefs. Other responsibilities covered oversight of exported material and working with contractors to schedule and organize material removal.

Cook County Health Remediation Site Investigation – Chicago, IL (November 2022)

Environmental Scientist

Executed soil sampling and field screening for volatile organic vapors. Collected samples using hand augers and from soil borings. Executed groundwater sampling from water wells. Completed all lab paperwork including the Chain of Custody and all the sample labels. Staked sites and oversaw GPRS search for various underground utilities.

Forest Preserve Phase I Environmental Site Assessments – Various Locations, IL (September 2022-Present)

Environmental Scientist

Completed Phase I Environmental Site Assessments for various Forest Preserve properties. The assessment included thoroughly investigating the Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. A detailed report was completed, including the findings and recommendations as related to the Subject Property.

Chicago Public Schools Soil Oversight – Chicago, IL (March 2022 – Present)

Environmental Scientist

Conducted soil oversight for various CPS locations. Responsibilities included preparation of field documents including, collecting tickets from truckers and general contractors, and Field Inspectors Daily Reports. Other responsibilities included oversight of imported material, field screening for volatile organic vapors in the materials leaving jobsite and coming into jobsite and working with general contractor to schedule and organize material removed.

Chicago Public Schools Underground Storage Tank Removal - Chicago, IL (March 2022 – Present)

Environmental Scientist

Executed soil sampling and field screening for volatile organic vapors at a tank pull. Completed tank removal oversight and insured preventative measures were in place. Verified there were no signs of a possible release to the environment.

Chicago Public Schools Soil Survey and Design - Chicago, IL (February 2022 – Present)

Environmental Scientist

Completed due diligence for several CPS properties. This included submitting EDR requests, FOIA requests and searching databases to look for any environmental records with relation to the property and surrounding properties. Scheduling a dig ticket to sample the work area. Complied all this information into LPC-662 packets that are then sent to CPS for review before soil removal is conducted.

Chicago Housing Authority Phase I Environmental Site Assessments – Chicago, IL (2021- Present)

Environmental Technician

Completed Phase I Environmental Site Assessments for various Chicago Housing Authority properties. The assessment included thoroughly investigating the Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. A detailed report was completed, including the findings and recommendations as related to the Subject Property.

Commonwealth Edison Remediation Oversight Projects – Chicago, IL (2021- Current)

Environmental Technician

Conducted construction oversight and material management at various ComEd job sites, including substations. Responsibilities included preparation of field documentation including, waste manifests, Field Inspector Daily Reports, and Job Safety Briefs. Other responsibilities covered oversight of exported material, including both wet and dry soils, and working with contractors to schedule and organize material removal. Also assisted in waste tracking for various job sites as well as staking in multiple locations of proposed soil boring locations.

Commonwealth Edison Remediation Site Investigation – Various Locations, IL (2021 – Present)

Environmental Technician

Executed soil sampling and field screening for volatile organic vapors, including inside substation boundaries. Collected samples using hand augers and from soil borings. Executed groundwater sampling from water wells. Completed all lab paperwork including the Chain of Custody and all the sample labels. Staked sites and oversaw GPRS search for various underground utilities.

Waste Metric Management and Tracking – Various Locations, IL (2021 – Present)

Environmental Scientist

Managed the tracking and reporting of non-hazardous and hazardous waste for a wide variety of construction activities. Compiled waste data from a variety of landfills. Profiled waste to various disposal facilities for a wide variety of project types. Experience in profiling non-hazardous waste.

Linda Beran

Linda Beran, P.G., Senior Environmental Scientist

Ms. Beran is a licensed professional geologist and an accomplished Project Manager and Technical Lead with over 25 years' domestic experience within the Environmental Consultant Industry. Her diverse experience includes the planning, development, and implementation of environmental due diligence studies, environmental site assessments, site characterization and closure plans, CERCLA/RCRA site assessments/investigations, soil and groundwater remediation projects, groundwater and drinking water protection studies, underground storage tank removals/installation, and remediation monitoring for closure programs. She has knowledge of federal and multiple state regulations including Illinois, Indiana, Michigan, and Wisconsin. Her experience ranges from addressing petroleum hydrocarbons, solvents, and other hazardous waste impacts. She is experienced in all project phases, from initial field studies to the preparation of plans, specifications, permitting, bid documents, and construction management. As an Environmental Project Manager, Ms. Beran is primarily responsible for the management of large, multi-disciplinary environmental service projects under contracts to a variety of clients: Petroleum Retail, Industrial/Commercial, and Federal/Local Governments.

Education
Bachelor of Science, Geological Engineering – 1987 University of Missouri – Rolla

Experience
Over 25 years

Expertise and Specialized Training
Hazardous Material Management
Environmental Site Assessments
Site Characterization and Closure Plans
CERCL/RCRA Site Assessments/Investigations
Soil and Groundwater Remediation Projects
Groundwater/Drinking Water Protection Studies
Underground storage tank removals/installation
Remediation Monitoring for Closure Programs
Environmental Compliance and Permitting
Environmental Due Diligence

Licenses, Registrations & Certifications
Licensed Professional Geologist, WI #251
OSHA 40-Hour HAZWOPER Certificate
OSHA 8-Hour Refresher
OSHA 8-Hour Supervisory Instruction Training
OSHA 30-Hour Construction Safety Certificate
Project and Department Management Training

Relevant Experience

Multiple ComEd Projects, Environmental Sampling and Construction Spoils Manifesting, Transportation and Disposal – Multiple Sites, Illinois.
Project Manager/Technical Lead
Coordinated, and managed the environmental services for multiple projects throughout the ComEd service territory. Projects may include, but not limited to environmental investigations, substation construction/demolition, new facility constructions, demolition, acquisitions and environmental remediation. Managed the environmental sampling and analysis of soils anticipated to be disturbed by

the construction activities to determine proper spoils handling methods and if worker safety precautions are required. Prepared the appropriate waste profile for disposal of the spoils at a ComEd approved disposal facility. Coordinated the manifesting, transportation, and disposal of the construction spoils. Management of the projects included discussions with staff, contractors and the ComEd Project Manager; scheduling and coordination of field work; subcontractor procurement; budget tracking, forecasting, and accruals; reporting on job progress and status, laboratory interface, and related activities.

Cook County Health, Multi-Campus Environmental Assessment and Planning, Cook County, IL.

Task Manager/Technical Lead

SPC is to perform comprehensive environmental assessments for the entire Oak Forest Health Center Campus, Cook County Health Administration Building, Cook County Department of Public Health in Forest Park, Logan Square Health Center and Provident Hospital. The study of the selected facilities is being performed to assess compliance with environmental regulations including but not limited to EPA, OSHA, City of Chicago, and IDPH and to develop planning repots for each facility including costs to address identified deficiencies or concerns. Scope of work to include Phase I and II Environmental Site Assessment and Remediation Planning of each facility, including current and former USTs and other RECs identified during the Phase I ESA. A Phase II ESA has been conducted for the Oak Forest Health Center Campus, and two more are currently scheduled for the Cook County Health Administration Building, and the Logan Square Health Center to assess environmental conditions within the potential future redevelopment area to further understand potential environmental impacts during the planning efforts. Responsibilities spanned all phases of project activities including project planning, preparation of project work plans, preparation of investigation cost estimates, coordination and oversite of subcontractors and staff during field investigation, project deliverables, and interaction with County's internal teams.

Multiple Large Oil Companies and Major Bus Line, Illinois, Indiana, Michigan, Wisconsin, and New York Site Investigations, Tank Removals of Retail Stations and Bus Terminals.

Project Manager/Technical Lead and Technical Writer

Numerous subsurface investigations, monitoring programs and underground storage tank removals. Responsibilities spanned all phases of project activities including project planning, preparation of project work plans, preparation of investigation and remedial cost estimates, field investigation, oversite of remedial actions, project deliverables, and interaction/negotiation with regulatory agencies. Experienced in preparation of site investigations and assessments; remediation work plans; characterization reports, corrective action plans and reports, and site closure reports.

Hartford Working Group, Vapor Intrusion and Mitigation, Illinois.

Task Manager

Managed the database, data integration and the Event-Based Monitoring activities of a multi-million-dollar project conducted during the development of interim measures designed to control and/or mitigate immediate health threats or other potentially unsafe conditions to residents in buildings and residences due to the presence of petroleum hydrocarbons in soil and groundwater underlying portions of the Village of Hartford, Illinois. Activities conducted during this project include inspection and sampling of indoor air and sub-slab vapors in residences and structures, design and implementation of vapor migration plans, and site-wide subsurface investigations for development of a conceptual site model and remedial design. Responsibilities included interaction with laboratory regarding samples analyzed, sample equipment issues, sample cancellation, and data validation; maintaining and uploading field and analytical data onto EQUIS database; provide weekly and quarterly analytical laboratory reports and site activity reports. Multiple data groups were maintained throughout the project. The project is conducted under an administrative order

between multi-party clients and the U.S. Environmental Protection Agency (USEPA). The Illinois Environmental Protection Agency (IEPA), the Agency for Toxic Substances and Disease Registry (ATSDR), and the Illinois Department of Public Health (IDPH) are also involved in the project.

Parker Hannifin Corporation, Limited Phase II Assessment, Indiana.
Project Manager
Performed a Phase II Assessment performed to evaluate potential environmental impacts to limited areas at a facility located in Syracuse, Indiana, which manufactures compression molded nitrile rubber gaskets and seals. Both soil and groundwater samples were collected using direct-push soil core tube and temporary well techniques. Results indicated tetrachloroethene in the soil and groundwater samples. Responsibilities included site investigation and assessment; cost estimating; review of subcontractor's invoices; review of project financials; preparation of characterization reports; and frequent contact with the regulatory personnel and client. Project work was conducted in accordance with the Indiana Department of Environmental Management (IDEM) Risk Integrated System of Closure (RISC) Technical Guide document.

AAA Acquisition Corporation, Limited Phase II Investigations, Illinois.
Project Manager
Completed limited Phase II Investigations at galvanizing plants in Dixon and Joliet, Illinois. The Phase II Investigations were performed to establish baseline environmental conditions at each facility. Potential contaminants of concern included volatile organic compounds (VOCs) and metals. Soil and groundwater samples were collected using hollow-stem auger drilling split-spoon soil core tube and temporary well techniques. Responsibilities included site investigation and assessment; cost estimating; review of subcontractor's invoices; review of project financials; preparation of characterization reports; and frequent contact with the regulatory personnel and client. Project work was conducted in accordance with Tiered Approach to Corrective Action Objectives (TACO).

Alpha Capital Partners, Phase I Investigation and Limited Phase II Investigation, Greenwood, Indiana.
Project Manager
Performed a Phase I Assessment and a limited Phase II Investigation to determine impact from recent operations identified during the completion of the Phase I Investigation. The Phase II Investigation was performed to assess potential impacts from the facilities operations, not historical contamination. Soil samples were collected using hand auguring techniques and water/sludge samples were collected from site specific drains. Some hydraulic oils in the hydraulic equipment were tested to determine the presence of PCBs. Tracer Dye testing of the floor drains was performed to determine if the drains were connected to the sanitary sewer. Responsibilities included site investigation and assessment; cost estimating; review of subcontractor's invoices; review of project financials; preparation of characterization reports; and frequent contact with the regulatory personnel and client. Project work was conducted in accordance with the Indiana Department of Environmental Management (IDEM) Risk Integrated System of Closure (RISC) Technical Guide document.

US Army Corps of Engineers-Omaha District, Supplemental Groundwater Investigation, Line 800-Pink Water Lagoon, Iowa Army Ammunition Plant, Iowa.
Technical Lead/Field Team Leader
Coordinated, supervised and performed characterization activities which included soil, groundwater and surface water sampling. Primary contaminants of concern included nitroaromatic explosive compounds (primarily RDX). The Line 800-Pink Water Lagoon is located at one of the production lines within the Iowa Army Ammunition Plant in Middletown, Iowa. Primary field work activities included investigating glacial till and bedrock aquifers; installing double-cased bedrock wells and shallow-intermediate glacial till wells;

collecting groundwater and surface water samples; hydraulic conductivity tests; evaluating data; and completing technical report. Semi-Annual sampling included, as part of long-term monitoring program.

U S Army Corps of Engineers-Buffalo District, Expanded Site Investigation, Wisconsin.
Technical Lead/Field Team Leader

Managed, developed, directed, and implemented an expanded site investigation for the Army Corps of Engineers at the former Antigo Air Force Station in Antigo, Wisconsin. Chemicals of concern included BTEX, chlorinated VOCs, diesel fuel, and metals. Scope of work included soil boring installation; soil and groundwater sample collection; field screening sample use; field GC for volatile compounds and x-ray fluorescence for metals; evaluation of data; completion of technical reports; and presentation to Wisconsin Department of Natural Resources, Army Corps of Engineers and current site owner. A Quarterly Well Sampling Program was developed to monitor private water supply wells located adjacent to the site as well as previously installed monitoring wells located on the site. Responsibilities included site investigation and assessment; cost estimating; review of subcontractor's invoices; review of project financials; preparation of characterization reports; and frequent contact with the regulatory personnel, residents and client.

US Army Corps of Engineers-Omaha District, Off-Site Groundwater Investigation, Iowa Army Ammunition Plant, Iowa.
Technical Lead/Field Team Leader

Coordinated, managed, supervised and conducted activities to collect supplemental data to characterize groundwater hydrogeology and contamination distribution beyond the boundaries of the Iowa Army Ammunition Plant located in Middletown, Iowa. Chemicals of concern included nitroaromatic explosive compounds (primarily RDX). Scope of work included Direct-push groundwater sample collection; permanent monitoring well installation and groundwater sample collection; establishing the nature and extent of explosives groundwater contamination beyond the boundaries of the ammunition plant; groundwater sample collection from private residential wells; data evaluation; and preparation of technical reports. Four phases of field activities were performed to establish the extent of groundwater contamination. Four technical memorandum reports completed. Responsibilities included site investigation and assessment; cost estimating; review of subcontractor's invoices; review of project financials; preparation of characterization reports; and frequent communication with residents, USEPA Project Manager, and United States Army Corps of Engineer Project Manager.

Former Finland Air Force Station, Supplemental Remedial Investigation, Lake County, Minnesota, U.S.A.
Project Team Leader/Project Geologist

Performed field activities which included soil boring and monitoring well installation; surface water, sediment and seep sampling; and private water well sampling. Contaminants of concern include VOCs, SVOCs and metal compounds. Scope of work included investigating bedrock aquifers impacted with contaminants of concern. Installed bedrock wells; groundwater and surface water/sediment sample collection; performed hydraulic conductivity tests; evaluated data; and completed technical report.

Confidential Attorney-Property Owner, Deep Aquifer Investigation, Southeast Plume, California.
Project Coordinator/Field Team Leader

Led the Chico Southeast Plume Deep Aquifer Investigation and the Intermediate and Deep-Aquifer Quality of Water Monitoring Program. The Chico Southeast Plume is an approximately 400-acre area of groundwater contamination in the southeast portion of Chico, California. The primary constituent of concern is trichloroethene (TCE). The scope of work involved drilling and installing 12 deep (250 to 470 feet) monitoring wells to further characterize the extent of the TCE plume in the deep aquifer units. As project coordinator, duties and responsibilities included preparation of scope of work, bid documents, cost

estimates, city/county permit applications and fees, railroad property access, managing the well installation program, evaluating all of the existing data in light of the new data, and preparing a report. This project was performed as part of an insurance cost recovery effort. California Environmental Protection Agency and California Department of Water Resources were involved in the project.

US Army Corps of Engineers-Omaha District, Long Term Monitoring Program, Iowa Army Ammunition Plant, Iowa.

Technical Lead/Field Team Leader

Coordinated, managed, supervised, and conducted semi-annual monitoring program of approximately 220 new and existing monitoring wells throughout the Iowa Army Ammunition Plant, Middletown, Iowa, for one year. Chemicals of concern include explosives, volatile organics-chlorinated hydrocarbons, metals, and pesticides/PCBs. Scope of work included monitoring well installation; groundwater sample collection; evaluating data gaps; completing technical reports after each sampling event; managing well inventory and completing a Long-Term Monitoring Program Report, both base wide and site-specific areas, based on the results of previously completed sampling events.

Confidential Oil Company, Hydrogeologic Investigation of Pipeline Release, Illinois.

Technical Lead/Lead Geologist

Performed a hydrogeologic investigation at a petroleum pipeline release site in Kankakee, Illinois. Work included investigating fractured bedrock and groundwater impacted with BTEX and MTBE contaminants by installing double-cased deep and shallow monitoring wells into bedrock; collecting a down-hole video record of the vertical and horizontal fractures in the bedrock; performing packer-tests on selected fractures; and performing several large pump tests on multiple paired wells. Investigated impacted municipal water wells with down-hole video records of the vertical and horizontal fractures in the bedrock; performed packer tests on selected fractures; and performed pump tests on several of the wells. Assisted in the data management and completion of a summary report of the data obtained along with recommendations of future activities.

Remedial Investigation/Feasibility Study at Wheeler Army Airfield, Oahu, Hawaii, U.S.A.

Technical Lead/Lead Geologist

Performed the remedial investigation/feasibility study at Wheeler Army Airfield, Oahu, Hawaii. Responsibilities included developing and performing subsurface investigation which included the installation of soil borings and monitoring wells; collection of soil, groundwater, and sediment samples; field screening soil and water samples; and developing/purging monitoring wells. Prepared technical reports for the project.

Site Investigation at the former Kincheloe Air Force Base, Kinross, Michigan, U.S.A.

Technical Lead/Lead Geologist

Prepared and implement work plans for a project that involved natural attenuation and analysis for chlorinated and petroleum hydrocarbon impacted areas. Contaminants of concern included, BTEX, chlorinated hydrocarbons, diesel fuel, and metals. Scope of work included soil boring and monitoring well installation; soil and groundwater sample collection; field screening samples for natural attenuation parameters; evaluation of data; and completion of technical reports.

Oversite of former MGP Facility Station-Upgrade Construction, Paxton, Illinois, U.S.A.

Field Team Leader/Lead Geologist

Oversaw and monitored construction activities at the former Paxton MGP site in Paxton, Illinois. During construction activities, oversight and monitoring was provided for the presence of MGP-related materials. Responsibilities included the field screening and segregation of excavated soil for off-site disposal.

Monitored the infiltration of water from several sewer tiles to determine if the water was contaminated. Uncovered two buried structures that may have been related to the former MGP facility and modified the construction activities to avoid these structures and maintain distance between the new and existing structures. This spacing was intended to allow for future remedial activities to address any residual contamination near the uncovered structures. Photographic and daily field note documentation were summarized in weekly reports and project technical report was completed.

Metropolitan Water Reclamation District of Greater Chicago, Soil Investigation, Illinois.
Task Manager
Conducted a soil investigation near drying bed No.1 located at the Calumet Water Reclamation Plant. MWRDGC had encountered a saturated layer of fill material which showed both visual and olfactory signs of petroleum hydrocarbon impacts. Visual investigation indicated pools of standing water on adjacent property with a sheen which extended across the property line near the Drying Bed No.1 excavation. The soil investigation was conducted to characterize impacted subsurface soils and perched groundwater that could be encountered during future excavations in the area of the Drying Bed No. 1. and provide engineering options to prevent infiltration in future excavations. As the task manager was involved with client and subcontract communications, project budgeting, scheduling of field team, contractors, and report completion.

Multiple Dry-Cleaning Facilities throughout Indiana, U.S.A.
Project Manager
Project Manager for numerous subsurface investigations of dry-cleaning facilities associated with groundwater and soil contamination. Responsibilities included initial site investigations and assessments; contaminated soil excavation and remediation; remediation work plans; cost estimates; contractor's invoices; and preparation of characterization reports, corrective action plans, and corrective action reports continuous and frequent contact with the regulatory personnel, insurance carriers and their consultants and client.

Patricia M. Bryan

Patricia Morris Bryan, PG, Project Manager

Ms. Bryan has over thirty years of experience in environmental consulting including Phase I and Phase I Environmental Site Assessments, remedial investigations, hydrogeological and geological investigations, UST investigations, brownfield investigations and remediation, risk assessments, and remedial response actions pursuant to the Illinois EPA SRP, TACO and LUST programs as well as other state programs.

Education
B.S. Geology, 1980,
(SUNY Binghamton)
Binghamton University

Geology, 1983
University of Houston

Groundwater Hydrology and
Groundwater Modeling, 1985
Boston College

Experience
Total 30+

Licenses, Registrations & Certifications
IL Licensed Professional Geologist (#196.000653)
WY Professional Geologist (PG-2348)
KY Professional Geologist (PG-1442)
OSHA 40-Hour HAZWOPER & Annual refreshers
OSHA 8-Hour Supervisory Course

Relevant Experience

Bryan Environmental Consltants, Inc. - Chicago, IL
President and Treasurer
Responsible for the overall management of the company, including business development, project execution, staffing, and financial performance.

Principal Geologist
Environmental consulting specializing in Due Diligence, Phase I and II ESAs, Site Remediation, and Brownfields Redevelopment.

Terracon Consultants, Inc. - Chicago, IL
Senior Associate/Environmental Department Manager
Manager for Environmental practice in Chicago metro area. Focused on Phase I and II ESAs, CCDD, and Site Remediation services. Clients included developers, banks, universities. Mentor and develop junior, mid-level, and senior staff on all aspects of environmental consulting.

Roux Associates, Inc. – Oak Brook, IL
Principal Geologist, Brownfields Practice
Lead Brownfield Redevelopment practice. Focused on Phase I and II ESAs, Site Remediation. Provided services to municipalities and the public sector in Chicago and Northwest Indiana. Mentor and develop junior, mid-level, and senior staff on all aspects of environmental consulting.

URS Corporation (Now AECOM) - Chicago, IL

Principal Geologist, Senior Project Manager, Group Leader for Brownfields Redevelopment, Client Account Manager

Expanded customer base and brownfields practice in Chicago office. Fostered client relationships while mentoring in-house staff and developing technical capabilities in GIS/database fields.

IT Corporation (now CBI) - Chicago, IL

Client Program Manager

Developed customer base for the Chicago office. Secured 3-year contracts with four new municipal clients and numerous industrial/commercial clients. Program Manager for a mid-sized chemical company and secured over $3 million in revenues for engineering services for that client.

Earth Tech Inc. (Now AECOM)

Program Manager, Environmental Department Manager

Managed the Environmental Site Assessments Group, performed Phase I and Phase II ESAs throughout New England and Mid-Atlantic region for major client portfolios

Key Projects

- Principal/Project Manager for asbestos and lead-based paint surveys, design documents and abatement oversight for three rehabilitation projects at the Elgin Mental Health Center
- Principal/Project Manager for a CSIR/ROR/RAP and ongoing remediation of a manufacturing facility in Illinois with several feet of free-phase oil beneath the operating floor
- Principal for numerous Special Waste/Hazardous Waste monitoring projects in support of the Illinois Tollway roadway rehabilitation program
- Principal for Illinois Department of Transportation (IDOT) Special Waste/Hazardous Waste Monitoring projects in support of IDOT's roadway rehabilitation program
- Principal/Project Manager for an ISRA site in New Jersey. The site, a former manufacturing facility, underlain by fractured bedrock, used and stored chlorinated solvents in its operation. A TCE plume emanates from the site and is co-mingled with an offsite TCE plume
- Principal/Project Manager for 150 Phase I ESAs in midwestern states (IL, IN, IA, MO, WI) completed for a national consulting firm. Ms. Bryan was the Project Manager and report writer for more than 35 Phase I ESAs for manufacturing facilities, retail establishments, multi-family housing, commercial buildings, and vacant land. Recognized Environmental Conditions (RECs) were noted on many and included releases of hazardous substances, leaking underground storage tanks (LUSTs) on the subject property and/or adjoining properties, and gas stations and or dry cleaners on the subject property and adjoining properties.
- Principal/Project Manager for Comprehensive Phase II Environmental Site Assessment of brownfield property now owned by a municipality. Conducted radiologic and geophysical surveys, and soil and groundwater sampling and analysis to evaluate elevated chemical and radiological (Thorium) contamination based on Phase I results. Several sources of radiological contamination were found during investigation activities. Seeking a US EPA Brownfield Assessment Grant to facilitate the Comprehensive Phase II ESA project. USEPA Cleanup grants will also be sought to assist with remediation.

- Project Manager for Phase I and II ESAs, Geotechnical Investigation and Soil Remediation in support of a redevelopment project a Chicago suburb.

- Principal/Project Manager for a multi-phased project comprising multiple parcels acquired by MPEA for the new McCormick Place Exhibition Hall, Chicago, Illinois. The scope of work included Phase I and II site assessments of each parcel; preparation of remediation plans and specifications; participation in bid package preparation; selection of a remediation contractor; and oversight of the remediation activities. Coordinates with regulatory agencies regarding in obtaining No Further Remediation Letters (NFRs).

- Project Manager for environmental investigation and remediation of brownfield parcels slated for redevelopment as part of the Rush University Medical Center expansion in Chicago. Prepared Phase II Environmental Site Assessments for three separate parcels. Under the Illinois Site Remediation Program (SRP), conducted CSIR/ROR/RAP/RACRs and obtained No Further Remediation Letters (NFRs) for three parcels.

- Project Manager for environmental remediation oversight of a brownfield site to be redeveloped as Chicago Housing Authority residences known as Rockwell Gardens. Obtained NFRs under the Illinois SRP, conducted ROR/RAP/RACRs.

- Project Manager, Client Manager for remediation of a former gas holder located within a Chicago Housing Authority residential housing development. The project included excavation of soils in and around the gas holder; emplacement of a compacted clay cap; and reconstruction of the playground. Coordination with Peoples Gas, the landscape architect; residents; and the community was key to project success. Health and safety controls for the residents and workers were also paramount. The CHA benefited from the improved property and the residents now enjoy a state-ofthe-art playground.

- Project Manager for characterization and remediation of a storage lot contaminated by leaking PCB transformers at a Chicago Housing Authority residential property. This complex project included: site characterization and remediation of PCB-contaminated soil, sewers, solid surfaces, and groundwater, preparation of sampling plans for site characterization and remedial confirmation sampling, preparation of remediation specifications, contractor implementation plans, community relations, and remediation oversight. Worked closely with CHA, and USEPA to develop PCB action levels for surface and subsurface soils and paved surface areas. The extensive characterization culminated in a site characterization report delineating the extent of contamination and/or cleanup required.

- Client Manager and Project Manager for the environmental remediation/compliance program for multiple sites of a multi-national chemical company. Conducted due diligence reviews, RCRA Corrective Action, RCRA Closure Plans, Phase I and Phase II Environmental Assessments, aboveground and underground storage tank upgrades, and designs and implements major soil and groundwater remediation projects under state regulatory programs.

- Project Manager for Phase I and II investigations and regulatory consulting per Illinois Tiered Approach to Corrective Action Objectives (TACO) and the Illinois Site Remediation Program (SRP). The project resulted in an NFR letter. The NFR paved the way for the 80-year-old plant to undergo a $12 million redevelopment. The redevelopment of the plant is part of an area-wide

redevelopment of Brownfields in south Chicago that has revitalized the once dilapidated neighborhood.

- Project Manager for a Brownfield Redevelopment project in suburban Chicago area. Previous uses included the manufacture of grenade detonators during WWI, and plastic ashtrays and mothballs after the war. Drinking water was from on-site wells and an on-site subsurface disposal system was used for disposal of sewage and effluent generated at the facility. Nearby residents had been concerned that past practices at the plant could impact their drinking water supply and a small lake located east of the property. Assisted the municipality and the developer in the redevelopment of the parcel by:

    - Attending public meetings to inform citizens of the investigation findings and proposed solutions
    - Developing plans and specifications for asbestos abatement and underground storage tank removal and disposal
    - Developing sampling strategies to verify remediation
    - Conducting further investigation in areas of concern to the citizens of the community
    - Providing oversight of asbestos abatement contractors and underground storage tank removal contractors
    - Preparing remediation cost estimates

- Project Manager under City of Chicago Brownfields contract for Phase III remediation of a large industrial site. Project tasks included evaluation of the beneficial re-use of foundry sands, assessment and abatement of asbestos-contaminated soil, excavation and removal of 15,000 tons of foundry sands and construction and demolition debris.

- Project Manager for investigations of a 550-acre Brownfields site in South Chicago. Portions of the site were previously used for steel manufacturing and chemical manufacturing. Environmental data was subjected to an Illinois TACO evaluation. The evaluation indicated that environmental conditions and contaminants of concern were present, however, proper management of the environmental issues could result in successful redevelopment of this blighted site into a motor speedway.

- Project Manager/Senior Geologist for the remedial investigation and remedial action of a chemical plant with DNAPL and LNAPL plumes. Designed and implemented a remedial design using sulfate amendments and hydrofracturing of the formation to augment biodegradation. The result was an overall decrease in both DNAPL and LNAPL.

- Project Manager/Senior Geologist for the design and operation of a Soil Vapor Extraction LNAPL removal system in a heterogeneous till in the Buffalo, NY. The system operated for more than 5 years and the owner (chemical company) received site closure.

- Project Principal Geologist/Senior Review for Brownfield Assessment and Remediation for a coalition of suburban Chicago communities that were awarded U.S. EPA Brownfields Assessment grants. Assisted with identifying and prioritizing potential brownfield sites in each of the communities, developing strategic regional and site-specific land reuse plans, developing a brownfields prevention program, and leveraging other funding for brownfields redevelopment.

Certificate of Completion

This certifies that

Patricia Bryan

has successfully completed

8 Hour HAZWOPER Refresher Training

Refresher certification does NOT necessarily indicate initial 24 or 40 Hour HAZWOPER certification

In Accordance w/Federal OSHA Regulation 29 CFR 1910.120(e) & (p)

And all State OSHA/EPA Regulations as well including 29 CFR 1926.65 for Construction.

This course (Version 1) is approved for 8 Contact Hours (0.8 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) (Accreditation # 044).

Safety Unlimited, Inc., Provider #5660170-2, is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue the IACET CEU. As an IACET Accredited Provider, Safety Unlimited, Inc. offers CEUs for its programs that qualify under the ANSI/IACET Standard. Safety Unlimited, Inc. is authorized by IACET to offer 0.8 CEUs for this program.

Julius P. Griggs

Julius P. Griggs
Instructor #892

2302235352954

Certificate Number

2/23/2023

Issue Date

ACCREDITED IACET PROVIDER

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Proof of initial certification and subsequent refresher training is NOT required to take refresher training

State of Illinois

Department of Financial and Professional Regulation

Division of Professional Regulation

LICENSE NO.
196.000653

The person, firm, or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below:

EXPIRES:
03/31/2025

LICENSED PROFESSIONAL GEOLOGIST

PATRICIA M BRYAN
PATRICIA BRYAN
17926 DIXIE HIGHWAY
STE B
HOMEWOOD, IL 60430

MARIO TRETO, JR.
SECRETARY

CECILIA ABUNDIS
DIRECTOR

The official status of this license can be verified at IDFPR.illinois.gov

17463855

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For future reference, IDFPR is now providing each person/business a unique identification number, 'Access ID', which may be used in lieu of a social security number, date of birth or FEIN number when contacting the IDFPR. Your Access ID is: 472898

LICENSE NO.
196.000653

Department of Financial and Professional Regulation
Division of Professional Regulation

LICENSED PROFESSIONAL GEOLOGIST

PATRICIA M BRYAN

EXPIRES:
03/31/2025

MARIO TRETO, JR.
SECRETARY

CECILIA ABUNDIS
DIRECTOR

The official status of this license can be verified at IDFPR.illinois.go

Cut on Dotted Line

In the name and by the Authority of the

Commonwealth of Kentucky

Kentucky Board of Registration for Professional Geologists

Patricia M Bryan

having qualified as required by act of the General Assembly, is duly registered and is hereby authorized to practice in the Commonwealth of Kentucky as a

Professional Geologist

In Testimony Whereof we have affixed our hand and seal of the Kentucky Board of Registration for Professional Geologists.

/s William L. Brab

Chair

Registration Number: 114540
Issue Date: March 3, 1994
Expire Date: December 30, 2023

RECEIPT

STATE OF WYOMING BOARD OF PROFESSIONAL GEOLOGISTS

OFFICE COPY

LICENSE NO. PG-2348 **DATE** 11/07/2022 **RECEIPT NO. 00543879**

RECEIVED FROM:

Patricia M. Bryan
Bryan Environmental Consultants, Inc.
17926 Dixie Highway
Suite B
Homewood IL 60430

	QTY	PRICE	TOTAL
RENEWAL FEE			90.00
ALPHA ROSTER			0.00
NUMERIC ROSTER			0.00
TOTAL			90.00

RECEIPT

STATE OF WYOMING BOARD OF PROFESSIONAL GEOLOGISTS

LICENSE NO. PG-2348 **DATE** 11/07/2022 **RECEIPT NO. 00543879**

RENEWAL FEE 90.00 **ROSTER** 0.00 **TOTAL** 90.00

RECEIVED FROM:

Patricia M. Bryan
Bryan Environmental Consultants, Inc.
17926 Dixie Highway
Suite B
Homewood IL 60430

By: Pamela J. Bird
Executive Director

STATE OF WYOMING BOARD OF PROFESSIONAL GEOLOGISTS

THIS IS TO CERTIFY THAT **Patricia M. Bryan**

SUBJECT TO THE CONDITIONS PRESCRIBED BY LAW, IS AUTHORIZED TO PRACTICE PROFESSIONAL GEOLOGY IN THE STATE OF WYOMING UNDER LICENSE CERTIFICATE

NUMBER PG-2348 Pamela J. Bird **EXPIRING** 12/31/2023

Executive Director

Riah Dunton

Riah Dunton, Designer

Ms. Dunton is a Designer, CADD operator, and coordinator with more than 25 years of experience designing, managing, and organizing a multitude of compositions from marketing and presentation, to architectural/civil and environmental documents. A forward-thinking team player producing multidisciplinary documentation for a range of projects.

Ms. Dunton is knowledgeable in Environmental/Geotechnical plans and exhibits, great focus on Phase I and II documents, proficient in SRP/SICR/SWPPP/Groundwater contour maps and land cross sections plans. She is also skillful in Architectural Planning, Building Design, and Layout, blueprint reading, as well as Civil Site Design. With great attention to detail, adept at landscape design, details, layouts, and standards. She is accomplished with presenting, assisting in municipal documents and permits, marketing, and participating in multiple exhibits for meetings and conferences.

Education
University of Michigan,
School of Architecture & Urban Planning
Bachelor of Science for Architecture
Ann Arbor, MI
2003

Art Institute of Houston
Associates Degree in Applied Science
For AutoCAD
Houston, TX
1995

Experience
25 years

Expertise and Specialized Training
Knowledge of Environmental/Geotechnical plans & exhibits.
Focus on Phase I & II / SRP / SICR / SWPPP/ SPCC / Groundwater Contours & section plans.
Proficiency in Architectural Planning, Building Design &n Layout, Civil Site Design, and Landscape Design.
Microsoft Office and Adobe Creative Suite
Autodesk CAD (AutoCAD, Civil 3D, Architectural Desktop)

Licenses, Registrations & Certifications
CPR / First Aid Training
Continued education in ACAD from Autodesk University (multiple classes for CAD, Civil 3D, Architectural Desktop, and Presentation)

Relevant Experience

CHA, Margaret Day Blake Apartments – Chicago, IL
Designer
Review and report of property to follow SRP regulations. After the soil and water lab results of the property, figure documents were created to illustrate the environmental impacts of constituent materials on the site.

Vequity, multiple properties – IL
Designer
Instituting regulations for state and local requirements for a variety of sites under purchasing, development, investigation, and remediation programs. Implementing Phase I report figures for analysis, review, and finalization. Following up with Phase II report documents illustrating sampling and proposed development layouts. Where sites are being developed, instating Site Remediation Programs (SRP) with a

number of figures showing site layout, sample/probe/well location, groundwater contour map, cross-section diagrams for underground structures and soil removals, also impact maps illustrating constituent materials within soil and groundwater impacting the site that limits use and/or requires remediation for development.

Rail Road Company, multiple sites – IL, IN

Designer

Instituting Phase II report documents illustrating sampling locations. Further investigations are required for Site Remediation Programs (SRP) with a number of figures showing site layout, sample/probe/well location, groundwater contour map, and in-depth impact maps illustrating constituent materials within soil and groundwater impacting the site that limits use and/or requires remediation for development, and soil management zone diagrams for removal and reuse materials within the site boundary. Continuous site development plans were modified due to altering conceptual development for new rail lines and soil management zones.

ALDI Inc, Architecture Plans & Civil Drawings – IL, IN, MI, OH

Designer

Working with the client and meeting municipal requirements to produce drawings for the construction of new grocery stores. Many sites required extensive infrastructure layouts, landscaping requirements, and municipal review. I developed conceptual site plans that became the base for the final design. I created Site/Civil drawings, full infrastructure plans, details, and calculations that were completed and permitted. Architectural drawings started with a client template requiring modifications per site to follow state and local codes involving interior and exterior amendments; and layout alterations due to Site specifications. Permits, state, and local approvals, and presentations were required for each site. Continued cooperation with contractors, developers, and inspectors resulted in completed construction.

Recycling Facility, Civil & Presentation Drawings – Chicago, IL

Designer

The client requested the redevelopment of an existing recycling plan to a new 'state of the art' recycling facility. This required a new site layout, detention on surface water, vehicle maneuvering plan, landscape plan, and proposed renderings illustrating final construction views. I worked with the client to facilitate needs for the site structures and vehicle use. With the use of current photographs of the site from multiple views, I created proposed renderings of the potential site development. Before and after views illustrated the improvement to the area and the visual separation the site had within the neighborhood. These site layout drawings and renderings were used as presentation materials to the city for approval.

Brandon Gorte

Brandon M. Gorte, P.E., Environmental Engineer

Mr. Gorte has 19 years of experience in environmental consulting, geologic investigations, and asbestos management. His background includes Phase I & II Environmental Site Assessments, Risk Assessments, groundwater and soil investigations, asbestos project designs, site inspections, and site remediation. Mr. Gorte has served as an environmental engineer for multiple projects throughout the Chicago area and has also prepared a variety of environmental technical documents including soil management plans, comprehensive site investigations, corrective action plans, closure reports, environmental waste characterizations, and Phase I and Phase II ESAs. He has been responsible for the oversight of soil removal at a multitude of Chicago Public School properties.

Education
Bachelor of Science,
Geological Engineering - 2002
Michigan Technological University
Houghton, MI

Experience
Total 19 years of Environmental Consulting
Total 14 years of Illinois Professional Engineer
Total 10.5 years of Illinois Asbestos Project Designer

Expertise and Specialized Training
Phase I & II ESAs
Site Remediation Program Reporting
Remediation Oversight

Licenses, Registrations & Certifications
State of Illinois Licensed Professional Engineer, License #062.060833
State of Minnesota Licensed Professional Engineer, License #48148
OSHA 40-hour Hazardous Waste Site Worker Certification
State of Illinois Asbestos Project Designer (2012) & Inspector (2018), License #100-18957
State of Wisconsin Asbestos Project Designer & Inspector, License #APD-228753

Relevant Experience

Investigation and Remediation

Confidential Utility 2021 Holiday Repair Scope
Project Manager
Coordinated the environmental investigations and the manifesting and disposal services at several Confidential Utility conduit locations for the repairs to the electrical conduit at each location.

Confidential Utility SSN Head End Geotechnical
Project Manager
Coordinated the geotechnical and environmental investigations, as well as manifesting and disposal services at several Confidential Utility substations in preparation for the construction of communications monopoles at each substation.

Confidential Utility Multi-Location Fiber hut Geotechnical

Project Manager

Coordinated the geotechnical and environmental investigations at multiple Confidential Utility substations in preparation for the construction of fiber huts at the substations. Also coordinated the disposal of the spoils for these fiber huts during the subsequent construction activities.

Confidential Utility VO Program

Project Manager

Coordinated the environmental sampling for multiple Confidential Utility substations for the Voltage Optimization Program in preparation for construction work at each substation. Also coordinated the disposal of the spoils at these substations during the construction activities. This work involves the addition and rerouting of conduits at these substations.

Chicago Public Schools

Project Manager

Coordinated the oversight for soil removal at multiple Chicago Public School properties including, but not limited to the following schools: Barry, Beard, Dever, Hibbard, and Salazar. The soil removed at each property went to either a clean construction demolition debris (CCDD) facility or a Subtitle D landfill based on the historic use of the area on the property where construction activities were to take place.

Raber Packing Company

Environmental Engineer

Coordinated the corrective action closure of a Leaking Underground Storage Tank incident for a property on Farmington Road in West Peoria, IL. The previous property owner and consultant had completed removal of the USTs, site investigation, site remediation, and did not close out the incident with the IEPA. The previous remediation activities had removed the contamination from the property. Completed the Corrective Action Completion Report for the property and obtained a No Further Remediation Letter with no restrictions on property use.

City of St. Charles

Environmental Engineer

Coordinated the removal of thirteen underground storage tanks and the subsequent site investigation of a Leaking Underground Storage Tank incident for a former shopping center in St. Charles, IL that was being redeveloped for a police station. The USTs were scattered throughout the former shopping center property in several different UST basins. Obtained two No Further Remediation Letters for the property with a construction worker caution statement.

808 Van Buren

Environmental Engineer

Coordinated the removal of one underground storage tank and the subsequent site investigation of the Leaking Underground Storage Tank incident for a former shopping center in Chicago, IL that was being redeveloped for a residential condominium building with a parking garage and ground floor commercial. The UST was discovered during construction activities and subsequently removed from the property. Obtained a No Further Remediation Letter for the property using a groundwater ordinance and engineered barriers.

Kane County Courthouse
Environmental Engineer
Coordinated the removal and clean closure of one vaulted underground storage tank within the boiler house on the Kane County Courthouse property for Kane County Government. The UST was to be removed as it was out of service and Kane County Government needed the extra room within the boiler house.

The Morton Arboretum
Environmental Engineer
Coordinated the removal and clean closure of two underground storage tanks for the maintenance area on the property. The area was being redeveloped for a new maintenance area serving the Arboretum which necessitated the removal of the USTs.

Midland CUSD #7
Environmental Engineer
Coordinated the removal of one underground storage tanks and the subsequent site investigation of the Leaking Underground Storage Tank incident for a former school in Lacon, IL that was being redeveloped for a new school for the District. The UST was discovered during a pre-demolition hazardous materials survey of the former school. Obtained a No Further Remediation Letter for the property with no restrictions for property use.

Thatcher Investments, Inc.
Environmental Engineer
Performed a Phase I Environmental Site Assessment of the property which led to a Phase II Environmental Site Assessment in the vicinity of two underground storage tanks discovered during the Phase I ESA in South Elgin, IL. One was a residential tank, and the other a commercial tank. Coordinated the removal of the two tanks, and the subsequent site investigation of a Leaking Underground Storage Tank incident for the commercial tank. Obtained a No Further Remediation Letter for the property with no restrictions for property use.

Brummel Realty
Environmental Engineer
Coordinated the site investigation of a 20-year-old Leaking Underground Storage Tank incident for a property in Montgomery, IL. The property was being sold, and the new owners wanted to close the LUST incident prior to purchase. Obtained a No Further Remediation Letter for the property with no restrictions for property use and reimbursement from the Leaking Underground Storage Tank trust fund for work performed on the property.

City of Aurora
Environmental Engineer
Coordinated the removal and clean closure of one underground storage tank for the former City of Aurora Police Station. The UST was used for the backup generator for the police station. Prior to the removal, the Aurora Police Department moved out of the building to a new site in the City. The UST was to be removed as the building was to be razed for a park.

BNSF Railway

Environmental Engineer

Coordinated the reporting and environmental response for a multitude of small immediate response incidents for BNSF Railway in northern Illinois. The incidents ranged from argon gas releases from tanker cars to diesel fuel spills from locomotives. Approximately one-quarter of these incidents were reportable to the IEPA Office of Emergency Response (OER). Coordinated the reporting to the IEPA OER for these incidents as well as the environmental cleanup and subsequent reporting.

Hartford Working Group

Environmental Engineer

Installed several vapor monitoring points throughout the northern part of the Village of Hartford, IL. The vapor monitoring points were installed to monitor the soil vapor in the northern part of the village due to long-term leakage from petroleum pipelines causing soil and groundwater contamination within the village.

Due Diligence

Phase I Environmental Site Assessments

Environmental Engineer

Performed multiple Phase I Environmental Site Assessments for various residential, commercial, industrial, school, government, agricultural, and vacant properties in Illinois, Indiana, Michigan, Missouri, Texas, and Wisconsin. Some of the more notable properties include:

- *Marshall Field and Company Building, Chicago, IL*. Performed a Phase I ESA on the Marshall Field and Company Building for a confidential client in preparation for construction activities to convert the upper six floors into office space.
- *Former Cook County Hospital Building, Chicago, IL*. Performed a Phase I ESA on the former Cook County Hospital for a confidential client in preparation for construction activities to convert the former hospital into a hotel.
- *Navarro Apartments and La Armada Apartments, Corpus Christi, TX*. Performed Phase I ESAs on the Navarro Apartments and the La Armada Apartments for the Corpus Christi Housing Authority. The Navarro Apartments were to have the streets rebuilt, and the La Armada Apartments were to have the central park and playground rebuilt.
- *Frederick Ball Homes, Quincy, IL*. Performed a Phase I ESA on the Frederick Ball Homes for the Quincy Housing Authority. The homes were to be renovated with a new playground and new apartments constructed on a portion of the property.
- *Sportsplex, St. Charles, IL*. Performed a Phase I ESA on the Sportsplex for the St. Charles Park District. The park district was purchasing the Sportsplex, an indoor 62,500 square foot sports complex.
- *Brewington Oaks, Rockford, IL*. Performed a Phase I ESA on the Brewington Oaks apartment complex for the Rockford Housing Authority. The Rockford Housing Authority was redeveloping the apartment towers.
- *Continental Properties, Illinois and Wisconsin*. Performed Phase I ESAs for Continental Properties for the construction and expansion of rental apartment complexes at five different locations: Springs at Orchard Road, North Aurora, IL; Springs at South Elgin, South Elgin, IL; Springs at Oswego, Oswego, IL; Springs at Kenosha, Kenosha, WI; and a potential development in Verona, WI.

- *City of Streator, IL*. Performed a Phase I ESA on the 124-acre former Smith-Douglass fertilizer plant southeast of Streator that had recently been annexed into the City. The former Smith-Douglass plant was subject to an IEPA seal order due to the contamination on-site from the fertilizer manufacture, acid ponds, and gypsum piles within the property.
- *Silver Beach Hotel, St. Joseph, MI*. Performed a Phase I ESA for the purposes of refinancing for the owners of this multi-story downtown hotel near Lake Michigan.

Industrial Health

Asbestos Project Designs

Asbestos Project Designer

Prepared project designs for the removal of asbestos in multiple K-12 schools and public and commercial buildings in Illinois. The properties included, but are not limited to:

- Advocate BroMenn Medical Center, Normal
- Aurora Housing Authority
- Bradley University, Peoria
- Braceville Elementary School District 75
- Cass School District 63, Darien
- Chadwick-Milledgeville Community Unit School District 399
- College of Lake County, Grayslake & Waukegan
- Cook County School District 130
- Dakota Community Unit School District 201
- Elmhurst Park District
- Evanston Township High School
- Gardner Grade School District 72C
- Gardner-South Wilmington Township High School District 73
- Housing Authority for LaSalle County
- Housing Authority of Joliet
- Kankakee Community College
- Kirby School District 140, Tinley Park
- LaMoille Community Unit School District 303
- Lighted Way Association, LaSalle
- Marmion Academy, Aurora
- Meridian Community Unit School District 223
- Mooseheart Child City & School
- Morris Community High School
- Morris Hospital
- North Central College, Naperville
- Northwest Community Hospital, Arlington Heights
- OSF Center for Health, Streator
- OSF Saint Francis Medical Center, Peoria
- OSF Saint Joseph Medical Center, Bloomington
- OSF Saint Mary Medical Center, Galesburg
- Peoria Public Schools District 150

- Peru Elementary School District 124
- Plano School District 88
- Prairie State College, Chicago Heights
- Riley Community Consolidated School District 18, Marengo
- Rockford Housing Authority
- Rockford Public Schools District 205
- Saint Cajetan School, Chicago
- Saint Mary's Catholic School, Sycamore
- Sauk Valley Community College, Dixon
- Spring Valley Community Consolidated School District 99
- Stockton Community Unit School District 206
- Tonica Community Consolidated School District 79
- Troy Community Consolidated School District 30C
- West Aurora School District 129
- Wheaton College

Prepared project designs for the removal of asbestos in public and commercial buildings in Wisconsin, including Beloit College and Monroe Hospital.

Asbestos Building Inspections

Asbestos Building Inspector

Performed asbestos building inspections in multiple K-12 schools and public and commercial buildings in Illinois. The properties included, but are not limited to:

- Bradley University, Peoria
- Chadwick-Milledgeville Community Unit School District 399
- Dakota Community Unit School District 201
- Kirby School District 140, Tinley Park
- Lighted Way Association, LaSalle
- Mooseheart Child City & School
- Plano School District 88
- Sauk Valley Community College, Dixon
- Spring Valley Consolidated School District 99
- Wheaton College

State of Illinois

Department of Financial and Professional Regulation

Division of Professional Regulation

LICENSE NO.
062.060833

The person, firm, or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below:

EXPIRES:
11/30/2023

LICENSED PROFESSIONAL ENGINEER

BRANDON M GORTE
1105 GAEL DR UNIT B
JOLIET, IL 60435-3086

MARIO TRETO, JR.
ACTING SECRETARY

CECILIA ABUNDIS
ACTING DIRECTOR

The official status of this license can be verified at www.idfpr.com

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LICENSE NO.
062.060833

Department of Financial and Professional Regulation
Division of Professional Regulation

LICENSED PROFESSIONAL ENGINEER

BRANDON M GORTE

EXPIRES:
11/30/2023

MARIO TRETO, JR.
ACTING SECRETARY

CECILIA ABUNDIS
ACTING DIRECTOR

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Rosann Park Jones

Rosann Park Jones, PG, Project Manager

Ms. Jones has over twenty-three years of professional experience in environmental consulting, as project manager for public and private sector clients. Ms. Park-Jones' areas of practice include environmental due diligence associated with mergers and acquisitions (M&A) and property transactions, regulatory compliance and permitting. She has managed projects involving Phase I and II Environmental Site Assessments (ESAs), RCRA Part B Compliance, RCRA Corrective Action, remedial investigations, hydrogeologic and geologic investigations, UST investigations, brownfield investigations and remediation, and remedial response actions pursuant to Illinois EPA SRP, TACO and LUST programs and other state programs.

Education
B.S. Political Science,
University of Nebraska-Lincoln

B.S. Geology,
University of Nebraska-lincoln

M.S. Geological Sciences
State University of New York-Albany

Experience
Total 23+

Licenses, Registrations & Certifications
IL Licensed Professional Geologist (#196.001361)
PA Licensed Professional Geologist (PG000758G)
DE Licensed Professional Geologist (S4-0001286)
LA Licensed Professional Geologist (#542)
OSHA 40-Hour HAZWOPER & Annual refreshers
OSHA 8-Hour Supervisory Course

Relevant Experience

Bryan Environmental Consltants, Inc. - Chicago, IL
Principal Geologist
Environmental consulting specializing in Due Diligence, Phase I and II ESAs, Site Remediation, and Brownfields Redevelopment.

Roux Associates, Inc. – Oak Brook, IL
Project Geologist

URS Corporation (Now AECOM) - Chicago, IL
Geologist

Dames & Moore (Now AECOM) - Philadelphia, PA
Staff Geologist – Senior Geologist

ICF Kaiser Engineers - Cherry Hill, NJ
Associate

Dunn Geoscience Corporation - Albany, NY
Petrologist

New York Geological Survey – Albany, NY & State University of New York, Albany
Research Assistant, State Paleontologist Office
Research Assistant, SUNY-Albany, National Science Foundation grant analyzing rare earth content of rock powders at Cornell University, Ithaca, NY

Key Projects

- Project Manager of an ongoing remediation project at a manufacturing facility in Illinois, overseeing the drilling of borings, installation of monitoring wells, collection of soil and groundwater samples, and removal of petroleum compounds by pumping of oily liquids and by excavation of petroleum impacted soils.

- Project Manager for ongoing projects with the Illinois Tollway and Illinois Department of Transportation involving non-special waste soils, groundwater removal, collection of soil samples for landfill disposal characteristics, and overseeing onsite monitoring of regulated substances. Oversee the preparation of health and safety plans, preconstruction plans, daily monitoring reports and final construction plans.

- Project Manager of a remedial investigation and large-scale excavation of contaminated soils at a former petroleum tank farm in Huntington Beach, CA. The brownfields site is undergoing redevelopment into two industrial buildings.

- Project Manager of a UST Excavation and Closure at a 52-story office tower under construction along the Chicago River in the West Loop. The project is part of a redevelopment of a brownfields property.

- Oversaw geophysical surveys, UST excavation and closure, soil sampling and characterization of the extent of excavation and prepared LUST reports.

- Field Manager for a geotechnical investigation and LUST soil remediation in support of a redevelopment project in a Chicago-area suburb. Project involved removal of LUSTs and contaminated soil from a former gas station. Oversaw demolition of site building and segregation of Clean Construction and Demolition Debris (CCDD).

- Performed contractor oversight and wrote ROR/RAP/ RACR reports summarizing environmental work on parcels undergoing redevelopment as part of the Chicago Housing Authority's Rockwell Gardens Phase 2A rental project, in order to receive a No Further Remediation (NFR) letter from the IL EPA.

- Prepared CSIR/ROR/RAP/RACR reports under the Illinois Site Remediation Program (SRP) for three brownfield parcels slated for redevelopment as part of Rush University Medical Center's expansion in Chicago. Obtained NFRs for three parcels.

- Manager for a Phase II Environmental Site Assessment of a 14-acre DuPage County, IL brownfield property. Conducted radiologic and geophysical surveys, soil and groundwater sampling and analysis to evaluate contaminants of concern. Prepared and submitted a Brownfield Assessment Grant and two Cleanup Grants to USEPA.

- Manager overseeing subsurface soil and storm water sampling at a manufacturing facility in Glendale Heights, IL.

- Project Geologist on a Nature & Extent investigation at a Whiting, IN refinery. Project involved delineating dissolved phase and light non- aqueous phase liquid (LNAPL) impacted groundwater based on past monitoring history and a review of 1100 monitoring well logs. Selected 100 wells in different operating units for sampling & analysis, slug and baildown testing, and GC fingerprinting of LNAPL. Authored report summarizing the historical use/ operation of different refinery units concentrating on the environmental issues within the main refinery. Prepared a Sampling and Analysis Plan and monitoring well inspection report which were submitted to IDEM.

- Project Manager at a refinery in Delaware City, DE overseeing all environmental work involving RCRA Part B Compliance of regulated hazardous waste units; 35 Solid Waste Management Units (SWMUs) were identified and investigated. Project Manager of a Verification of Release Study for 15 SWMUs and 2 additional units as part of a RCRA Corrective Action submitted to US EPA and DNREC, which was approved. Performed a hydrogeologic investigation of nonchlorinated organic compounds in groundwater and oversaw budgeting, forecasting, client communications, and managed field teams' work.

- Project Manager for a Phase II ESA which consisted of subsurface soil and groundwater investigations at two window and door manufacturing facilities in northwestern Pennsylvania.

- Project Manager for a project involving sampling and proper disposal of a spilled DEA-regulated substance (testosterone) at an Illinois facility.

- Manager of a subsurface soil and groundwater investigation at a former auto dealership and service station in Philadelphia which was redeveloped into a big box store. Project involved test pits, soil borings, installation of monitoring wells and sampling, pump testing and a feasibility study. As a result of client suing former owners and adjacent owners for contamination of onsite soil and groundwater, Ms. Park-Jones was subpoenaed and provided expert testimony. Client won a multimillion-dollar lawsuit as a result of the groundwater & soil investigation.

- Project Manager for a soil and groundwater investigation involving dewatering of land prior to construction of an underground parking garage and medical office building in Abington, PA. Project involved treatment and disposal of groundwater, petroleum-contaminated soils, disposal of USTs, sampling of monitoring wells, soil gas work, test pits and a pumping test.

- Project Manager for Phase I and II ESAs at a crystal oscillator manufacturer in Norwalk, CT. Investigated subsurface conditions around USTs and ASTs including a chlorinated solvent distilling and recycling building. Project included a soil gas survey, soil sampling, rock coring, tightness testing of a UST, sediment and water sampling from an outfall.

- Project Manager of Phase II ESAs involving subsurface soil and groundwater investigations on behalf of a railroad equipment manufacturing concern in various locations in SC, KS and Ontario, Canada.

- Project Manager for Phase I and II ESAs at industrial trash compactor manufacturing facilities in PA, AL, and NV.

- Project Manager for Phase I and II investigations at a door manufacturer as part of a real estate transaction. Investigation included evaluating buried drums where the door manufacturer had disposed of wastes and sampling of onsite monitoring wells in Northumberland, PA.

- Project Manager for a groundwater investigation in Glasgow, DE involving assessment of groundwater flow direction, sampling monitoring wells, and assessing nearby leaking USTs.

- Project Manager for Phase II ESA at an automobile parts manufacturing plant located at a former tannery in NW Pennsylvania. Issued reports to both buyer and seller and performed soil sampling after the property transaction.

- Manager for investigations of trichloroethylene (TCE)-contaminated groundwater at the Recticon/Allied Steel Superfund Site in Parker Ford, PA. Project involved installation of activated carbon filtration systems on private supply wells, quarterly sampling of wells, and extension of a public water line. Negotiated terms of agreement with the US EPA on behalf of a Fortune 500 client.

- Geologist at an on-site dioxin incineration at Fort A.P. Hill in VA, providing technical assistance.

- Project Manager on assessments involving PCBcontaminated soils in Virginia and groundwater quality at private wells in West Virginia.

- Geologist providing technical assistance to US EPA at the Fike Chemical NPL Site in Nitro, WV involving air monitoring, geophysical survey of the Nitro Landfill, characterization and disposal of thousands of drums of hazardous waste and unknown materials in sludge lagoons and chemical warehouses. Onsite work performed in Level B PPE included oversight of cleanup contractors.

- Authored paper summarizing SOPs for emergency removal actions and action levels at contaminated groundwater sites for US EPA Region III.

- Project Geologist overseeing sampling at the 440-acre Avtex Fibers Superfund Site in Front Royal, VA, the world's largest producer of rayon. Site investigation activities included sampling groundwater, outfalls, and onsite waste sludge.

- Project Manager of the Bensalem Drum Emergency Removal Site in PA involving the sampling, analysis, and disposal of abandoned drums and site soils.

- Project Manager of Newport Drum Emergency Removal Site in Newport, DE. Project involved overpacking drums, bulking compatible hazardous waste materials and transporting/disposing of drums and soils.

- Project Geologist at Spectron Chemical NPL Site in Elkton, MD, a solvent recycling facility. Provided oversight of sampling and bulking of hazardous wastes for offsite disposal, PRP research.

- Project Manager of the Deardorff Drive/Ridge Road Superfund Site involving chlorinated solvents (DNAPLs) in groundwater. Project involved sampling of groundwater at commercial and residential wells to verify removal of solvents using activated carbon/UV systems and preparation of reports.

- Geologist at Drake Chemical NPL Site in Lock Haven, PA. Project involved database management, disposal of hazardous wastes and sludges.

- Site Geologist at Whitmoyer Laboratories NPL Site in Myerstown, PA involving sampling and disposal of hazardous wastes including arsenic sludge and elemental sodium at a veterinary pharmaceuticals facility. Assisted US EPA with public meetings and media interactions.

- Geologist as part of a team that provided on-call 24-hour emergency response work at uncontrolled hazardous waste sites throughout US EPA Region III. Work involved multi-media sampling in Levels B and C PPE at chemical fires, railcar accidents and leaking above-ground storage tanks (ASTs). Sampled illegal discharges from industrial sites, contaminated soils and sludges, and evaluated groundwater after large chemical spills.

CERTIFICATE OF TRAINING

PRESENTED TO

ROSANN PARK-JONES

Having successfully completed 8 hours of instruction in OSHA 29 CFR 1910.120
(Hazardous Waste Operations and Emergency Response) as

GENERAL SITE WORKER REFRESHER

Conducted this 20th day of February, 2023

FIELD ENVIRONMENTAL INSTRUMENTS, INC.

Colton Young
Instructor

State of Illinois

Department of Financial and Professional Regulation

Division of Professional Regulation

LICENSE NO.
196.001361

The person, firm, or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below:

EXPIRES:
03/31/2025

LICENSED PROFESSIONAL GEOLOGIST

ROSANN PARK-JONES
921 GREENWOOD AVE
WINNETKA, IL 60093-1431

MARIO TRETO, JR.
SECRETARY

CECILIA ABUNDIS
DIRECTOR

The official status of this license can be verified at IDFPR.illinois.gov

17467067

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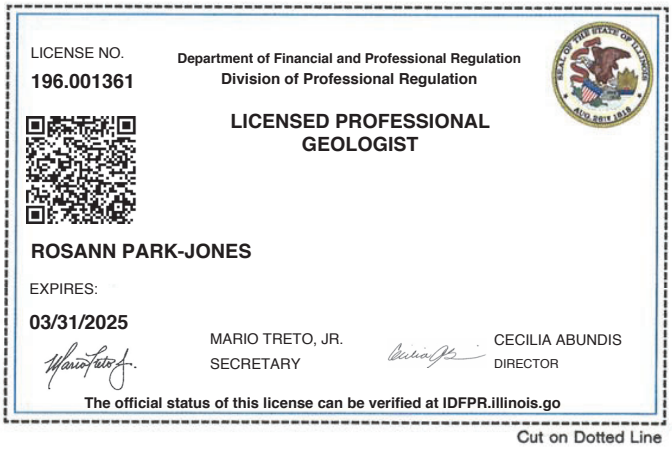
For future reference, IDFPR is now providing each person/business a unique identification number, 'Access ID', which may be used in lieu of a social security number, date of birth or FEIN number when contacting the IDFPR. Your Access ID is: 3736254



LICENSE NO.
196.001361

Department of Financial and Professional Regulation
Division of Professional Regulation

LICENSED PROFESSIONAL GEOLOGIST

ROSANN PARK-JONES

EXPIRES:
03/31/2025

MARIO TRETO, JR.
SECRETARY

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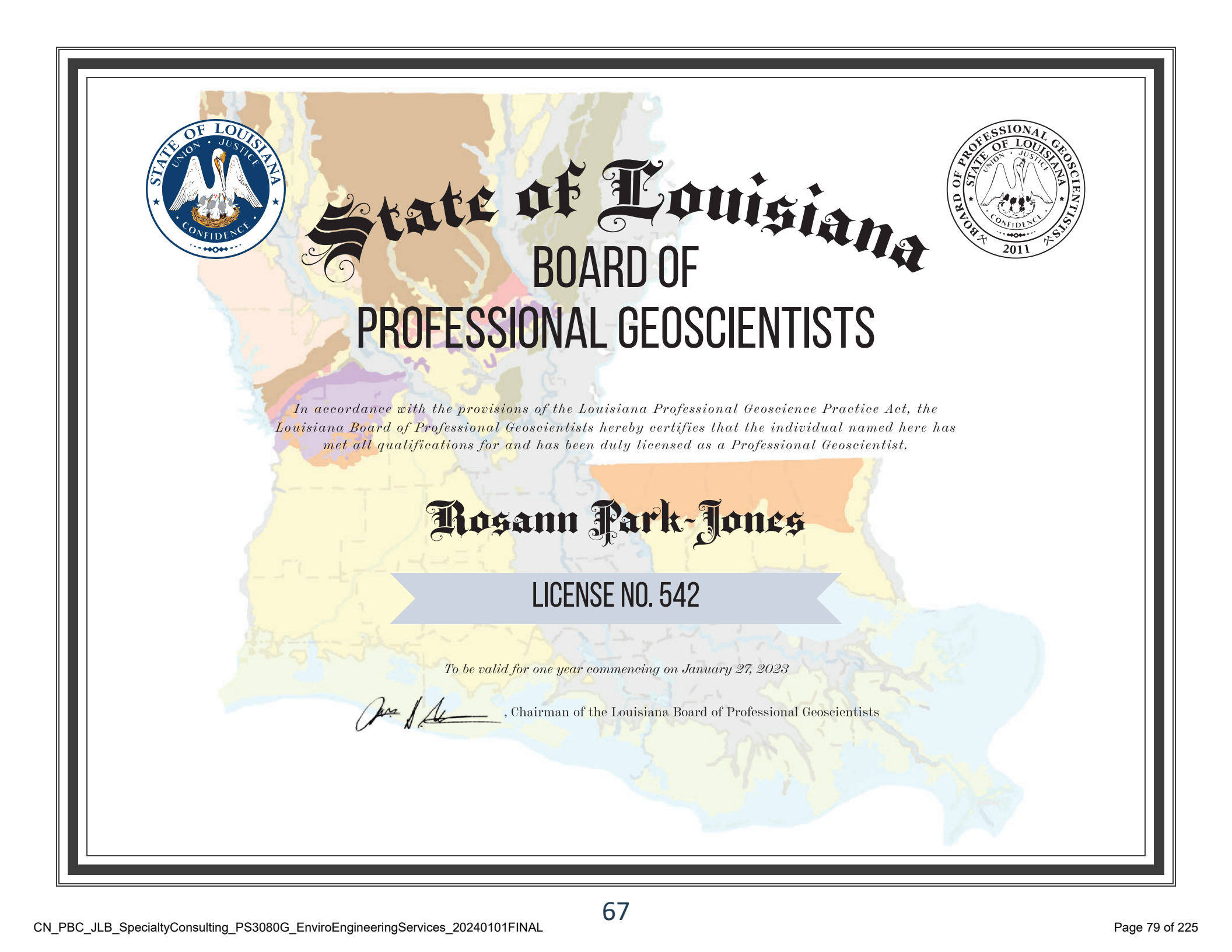
DIRECTOR

The official status of this license can be verified at IDFPR.illinois.go

Cut on Dotted Line



State of Louisiana
BOARD OF PROFESSIONAL GEOSCIENTISTS

In accordance with the provisions of the Louisiana Professional Geoscience Practice Act, the Louisiana Board of Professional Geoscientists hereby certifies that the individual named here has met all qualifications for and has been duly licensed as a Professional Geoscientist.

Rosann Park-Jones

LICENSE NO. 542

To be valid for one year commencing on January 27, 2023

, Chairman of the Louisiana Board of Professional Geoscientists

LOUISIANA BOARD
OF PROFESSIONAL GEOSCIENTISTS
9643 Brookline Avenue, Suite 101, Baton Rouge, LA 70809

January 30, 2023

Rosann Park-Jones, PG
921 Greenwood Avenue
Winnetka, IL 60093

Dear Rosann:

Thank you for renewing your Louisiana Professional Geoscientist license. Enclosed is your current license registration card. Please be aware that the license credential (wall certificate) you received when you were initially licensed is not valid proof of licensure unless the license registration card accompanying it is current.

As a professional geoscientist, you should become familiar with the Louisiana Geoscience Practice Act and the LBOPG rules. The act and the LBOPG rules can be accessed at LBOPG.org. For the act, click on the menu item "Requirements & Rules," and scroll down to "Louisiana Professional Geoscience Practice Act." For the rules, click on "Requirements & Rules" and scroll down to "Rules."

Fifteen hours of geoscience professional development (PDH) are required to qualify you for renewal of your Louisiana PG license. One of those hours must be in professional ethics; a one-hour presentation on geoscience ethics is provided as a courtesy on our website. Acceptable professional development activities should maintain, enhance, or expand your skills and knowledge relevant to geoscience. **Please use the template that is provided on the website at LBOPG.org to log your professional development hours. Select "Resources" on the menu; then, on the resulting page, select "Continuing Education."** You will also find helpful information and an example of a completed log sheet there.

Also, please let us know if we need to update your contact information. You can either update the information yourself by logging into your profile at LBOPG.org, or you can send the updates to me, and I will happily make the changes for you.

Please contact our office at apply@lbopg.org or by calling 225-505-3766 if you have any questio

Once again, we thank
Geoscientist license.

With best regards,

Brenda Macon
Executive Secretary

STATE OF LOUISIANA
Board of Professional Geoscientists

Licensee Name: Rosann Park-Jones
Licensee ID #: 542
Expires: 1/27/2024

Chairman of the Board

Subject: Your license payment was received
Date: Monday, January 30, 2023 at 10:56:05 AM Central Standard Time
From: LBOPG Website
To: Rosann Park-Jones

Louisiana Board of Professional Geoscientists

We received your payment:

Email:	rparkjones@bryanenv.com
License Number:	542
License Effective Date:	2023-03-28
Type:	Annual Renewal 60+,Payment Processing
Payment Amount:	106
Acknowledged Training: 14h Geoscience + 1h Ethics:	true
Address:	921 Greenwood Avenue
City:	Winnetka
State:	Illinois
ZipCode:	60093
Country:	

Louisiana Board of Professional Geoscientists https://www.lbopg.org

Commonwealth of Pennsylvania Department of State
Bureau of Professional and Occupational Affairs

Professional Geologist

License Number
PG000758G

Expiration Date
09/30/2023

Active

ROSANN PARK-JONES
921 GREENWOOD AVE
WINNETKA, IL 60093

OFFICIAL DOCUMENT

READ THE FOLLOWING INFORMATION CAREFULLY CONCERNING YOUR LICENSE:

1. SIGN THE WALLET CARD AND CERTIFICATE WHERE INDICATED.
2. DETACH THE WALLET CARD AND CERTIFICATE AT PERFORATION.

Pennsylvania Licensing System (PALS)

Visit our website at: www.pals.pa.gov to renew your license, change your personal or license address, or order duplicate licenses.

ROSANN PARK-JONES
921 GREENWOOD AVE
WINNETKA, IL 60093

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

21 0213872

License Type
Professional Geologist

ROSANN PARK-JONES
921 GREENWOOD AVE
WINNETKA, IL 60093

License Status
Active

Initial License Date
09/15/1994

License Number
PG000758G

Expiration Date
09/30/2023

Commissioner of Professional and Occupational Affairs

Rosann Park-Jones
Signature

ALTERATION OF THIS DOCUMENT IS A CRIMINAL OFFENSE UNDER 18 PA.C.S.§. 4911

License Look Up

Disclaimer: DELPROS online verifications are considered ***primary source verifications* and are free of charge. These online license verifications contain real time information from our DELPROS licensure database.

Feb 16, 2023 15:10 EST

ROSANN PARK-JONES

Status	Active
Profession	Geologists
Type	Geologist
Application Type	Reciprocity
License/Application/Approval Number	S4-0001286
Issue Date	05/01/2012
Expiration Date	09/30/2024
City	WINNETKA
State	IL
Zipcode	60093
Discipline	No

Discipline Information and Public Documents:

If the licensee above has been disciplined, disciplinary actions cited in the disciplinary order, consent agreement, or reprimand appear below. To view the law, click Delaware Code. To view a profession's Rules and Regulations, click dpr.delaware.gov, select the profession and then click Rules and Regulations under Information on the left menu bar.

Current EST Time is **Feb 16, 2023 15:10 EST**

Allison Krause

Allison Krause, Environmental Scientist

Ms. Krause is a recent graduate of University of Illinois at Chicago, where she earned her Bachelor of Science in Earth and Environmental Science. Her diverse academic experience includes coursework focused on hydrogeology, structural geology, soils, geochemistry, and mineralogy. She is experienced in conducting fieldwork, having been involved with academic geological fieldwork in Missouri. Ms. Krause also has experience during her undergraduate research studies utilizing various computer programs relevant to environmental applications including QGIS and Google Earth. As an Environmental Scientist, Ms. Krause is primarily responsible for the performance and oversight of fieldwork in an efficient and effective manner. She also works closely with Project Managers in implementing project tasks to meet client objectives and priorities.

Education
Bachelor of Science, Earth and Environmental Science - 2021
University of Illinois at Chicago
Chicago, IL

Experience
More than 1 year of Professional Environmental Services
5 Years of Customer Service and Satisfaction

Certifications
OSHA 40-Hour HAZWOPER Certificate
OSHA 30-Hour Construction Safety Certificate

Relevant Experience

Environmental Compliance and Due Diligence

Muller + Muller, Phase II Environmental Site Assessments (ESA) - North Riverside, Illinois
Environmental Scientist
Assisted the Project Manager with creating a Sampling and Analysis Plan (SAP) for a phase II environmental site assessment of the Subject Property. She was present on-site for drilling and was responsible for properly collecting soil samples for laboratory analysis. Ms. Krause was responsible for writing the Phase II ESA for Muller + Muller.

Cook County Health, Logan Square Health Clinic, Phase I and II Environmental Site Assessment (ESA) - Chicago, Illinois
Environmental Scientist
Assisted the Project Manager with the site visit for a phase I environmental site assessment of the Subject Property. She was present on-site for and was responsible for properly collecting soil samples for laboratory analysis.

Forest Preserve District of Cook County, 328,330, 331 Old Sutton Road, Phase I Environmental Site Assessment (ESA)- Barrington Hills, Illinois
Environmental Scientist
Ms. Krause assisted on the site visit and was responsible for a phase I environmental site assessment of the Subject Property.

Alfredo Martinez

Alfredo (Fred) Martinez, Sr. Program Manager

Mr. Martinez has over 35 years of multi-disciplinary environmental experience including soil and groundwater remediation, environmental assessment, regulatory compliance, and environmental management systems. Projects have included: Phase I environmental site assessments; environmental health and safety audits; real estate transaction audits; property condition assessments; subsurface investigations; underground storage tanks; site remediation; hazardous and non-hazardous waste management and disposal; environmental compliance; asbestos and mold assessments and mitigation; and risk management.

Education
B.S. Environmental Science
Indiana University – Bloomington, IN

Experience
Over 35 years

Expertise and Specialized Training
-OSHA 29 CFR 1910.120/40 Hour Hazardous Waste Site Operations
-8 Hour Managers Health and Safety Training
-OSHA 30 Hour Construction Training
-Water Quality Concepts / United States Geological Survey
- Groundwater Monitoring / Illinois State Water Survey
-Wellhead Protection Program / US Environmental Protection Agency
-Risk Assessment / Indiana Dept. Environmental Management
-Risk-Based Assessment and Corrective Action / Minnesota Pollution Control Agency
-Bioremediation and Risk Assessment / Ohio Department of Commerce BUSTR
-Risk Assessment / US Environmental Protection Agency
-Radiation Training / US Environmental Protection Agency and Kerr-McGee
-ISO 14000 Audit Training / AIG

Licenses, Registrations & Certifications
Mold Professional #1847
Illinois Asbestos Professional #19329,
Indiana Asbestos Professional # 19A007208,
Iowa Asbestos Professional #15-4011,
Wisconsin Asbestos Professional #All-218617

Relevant Experience

ComEd, Excavated Material Management Program - Illinois
Sr. Program Manager
Sr. Program Manager and Subject Matter Expert (SME) supporting ComEd on due diligence, IEPA TACO risk-based exposure standards, Phase I and Phase II Environmental Site Assessments, and managing the ComEd CM Excavated Material Management Program. The program involves the management of dry and wet spoils generated by ComEd or ComEd Contractors of Choice (COC) crews during typical operations. A due diligence review is conducted utilizing the ComEd Due Diligence Layered System with the results documented and reported to ComEd. Emergent projects are processed utilizing ComEd guidelines and the Emergent Process Flow system, developed internally for the program, to ensure prompt and proper handling of the emergent project and generated spoils. Additional technical activities include, but are not limited to, the creation of the disposal profiles, review of sampling data, and developing recommendations based on the results of the data.

Garb-Ko Inc., Convenience Store with Retail Petroleum Sales – Indianapolis, Indiana

Sr. Project Manager/Technical Lead

Project manager for the pre-acquisition Phase I/Phase II Environmental Site Assessment of a convenient store with retail gasoline sales. The Phase I was conducted in accordance with US EPA Standards and Practices for All Appropriate Inquires (AAI), and ASTM Standard Practice E 1527. The Phase II Assessment was based on ASTM Designation E 1903. Additional research associated with the Phase I include reviewing local, state and federal regulatory databases. Phase II activities included an Initial Site Characterization (ISC) investigation, which included Geoprobe® direct push drilling methods, in order to define the areal and vertical extent of contamination after adsorbed- and dissolved-phase petroleum hydrocarbons were detected during a preliminary investigation. Closure activities included quarterly groundwater monitoring, reporting and groundwater modeling. Closure was granted in March 2018.

Wells Fargo NA, Phase I/II and Mold Remediation – Wauwatosa, Wisconsin

Sr. Project Manager/Technical Lead

Project manager for the pre-acquisition Phase I/Phase II Environmental Site Assessment of a retail facility with granite countertop manufacturing. The Phase I identified possible on-site environmental concerns, including potential subsurface impact from historical use and mold. Subsurface exploration and sampling techniques included Geoprobe direct push drilling methods. Mold sampling involved tape lift and air sampling utilizing a spore-trap sampling cassette designed for the rapid collection and analysis of a wide range of airborne aerosols including fungal spores, pollen, insect parts, skin cell fragments, fibers, and inorganic particulates. Mold remediation activities included mold removal utilizing a proprietary disinfection cleaner and a high-pressure wash. Clearance sampling confirmed removal of the mold.

PNC Bank, Phase I/Asbestos/Lead Based Paint/Radon Inspection – 6430 Stony Island Ave, Chicago, Illinois

Sr. Project Manager/Technical Lead

Project manager for the Phase I Environmental Site Assessment, asbestos, lead based paint (LBP) and radon inspection of a government subsidized 21 story apartment building with units set aside for low- and moderate-income families. Coordination with the City of Chicago and Illinois Housing Development Authority (IHDA). Project activities included: a Phase I conducted in accordance with US EPA Standards and Practices for All Appropriate Inquires (AAI) and ASTM Standard Practice E 1527; asbestos inspection and sampling; LBP inspection and sampling; and, radon sampling. The project scope was developed with State and local governmental entities in order to leverage tax credits for renovations and improvements. The asbestos and LBP O&M plan was also reviewed, and recommendations produced.

Integris Ventures, Phase I/Property Condition Assessment – 5500 Pearl St, Rosemont, Illinois

Sr. Project Manager/Technical Lead

Project manager for the pre-acquisition Phase I/Property Condition Assessment (PCA) of a commercial business office building. The Phase I was conducted in accordance with US EPA Standards and Practices for All Appropriate Inquires (AAI), and ASTM Standard Practice E 1527. The PCA was conducted in accordance with ASTM Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process Designation E 2018-15 (ASTM Practice E 2018), which outlines good commercial and customary practice for conducting a PCA of the improvements located on a parcel of commercial real estate. The PCA activities included a review of available construction documents to become familiar with the construction, life safety, mechanical, electrical and plumbing systems, and general building environment. Limited of observations regarding the property's general accessibility referenced to Title III of the Americans with Disabilities Act as it relates to common areas and major means of egress and ingress. The reports included an estimate of probable costs for suggested remedies of the physical deficiencies identified.

Farbman Acquisition LLC, Property Condition Assessment/Limited Asbestos Survey – 2222 Camden Ct, Oakbrook, Illinois

Project Manager/Technical Lead

Project manager for the pre-acquisition Property Condition Assessment (PCA) and asbestos survey of a commercial business office building. The PCA was conducted in accordance with ASTM Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process Designation E 2018-15 (ASTM Practice E 2018), which outlines good commercial and customary practice for conducting a PCA of the improvements located on a parcel of commercial real estate. The PCA activities included a review of available construction documents to become familiar with the construction, life safety, mechanical, electrical and plumbing systems, and general building environment. Limited of observations regarding the property's general accessibility referenced to Title III of the Americans with Disabilities Act as it relates to common areas and major means of egress and ingress. The reports included an estimate of probable costs for suggested remedies of the physical deficiencies identified. Asbestos sampling included the collection of bulk floor tile samples.

PNC Bank, Construction Analysis – 4065 N. Calhoun Rd., Brookfield, Wisconsin

Sr. Project Manager/Environmental Technical Lead

Project manager for the construction analysis of a medical building in Brookfield. The purpose of the construction analysis was to identify and assess construction related risks associated with a proposed construction loan. This analysis was completed by reviewing all pertinent construction documents available. The reporting contained comments on the design attributes and building materials related to site clearing and grading, site utilities, landscaping, foundation design, vertical superstructure, exterior finishes, interior finishes and fixtures, vertical transport, fenestration, roofing systems, electrical systems, HVAC systems, plumbing systems, life safety systems and any special equipment and features. A review environmental reports documenting environmental hazards, recommendations and projected remediation costs was also completed. The report also contained a review the contractor's qualification package and comments on the contractor's licensing, experience and insurance documentation.

Kass Management/Private Bank, Construction Progress Analysis – 2900 W. Logan Blvd., Chicago, Illinois

Project Coordinator/Field Team Leader

Project coordinator for the construction progress analysis of a former church undergoing complete renovations in Chicago. The purpose of the construction progress analysis was to assess the progress of construction as it relates to the contractor's application for payment and progress schedule. This analysis was completed by reviewing subcontractor draws, invoices, proposals or other documents submitted along with the application for payment and advised the client of any discrepancies or concerns. The final report also contained comments on the project's adherence to the progress schedule, and whether the project's completion date is achievable. A review of any change orders submitted was completed and the client was provided with a recommendation for approval, modification or rejection of each change order. The effect of a change order's impact on the construction schedule was also noted.

Comex/Colorwheel Paint, LLC, Industrial Paint Facility Portfolio – US and International

Program Manager

Program Manager for the environmental, health and safety compliance audits at industrial paint facilities located in the US, Canada and Mexico. A review of the compliance status of the facility's operations within the terms of applicable Occupational Safety and Health Administration (OSHA) and/or state and local regulations as well as corporate policies was also conducted. Based on the product quality, the paint company requested same team for facilities throughout North America

Confidential Retail, Suspect Mold Assessment – Pleasant Prairie, Wisconsin
Sr. Project Manager/Technical Lead
Project Manager for the suspect mold assessment of a retail distribution center. Areas of suspect mold were identified at the facility by employees. The purpose of assessment was to evaluate the nature and extent of the suspected mold growth observed in the subject building. Activities included mold sampling involving tape lift and air sampling utilizing a spore-trap sampling, The report outlined the field observations, analytical results and recommendations based on those results.

PNC Bank, Asbestos Inspection and Removal– Libertyville, Illinois
Sr. Project Manager/Technical Lead
Project manager for the asbestos inspection and removal of asbestos in an operating bank building. Asbestos sampling included the collection of piping insulation, drywall and floor tile samples. Floor tile removal occurred after regular business hours in order for the bank to continue operating. Reporting included the results of clearance samples taken after the asbestos removal.

Coca Cola USA, Former Coal Gasification Site Investigation - Chicago, Illinois
Project Manager/Technical Lead
Project Manager for the assessment of a trucking terminal located on a former coal gasification site. The assessment was conducted in response to a request by the client to evaluate the possibility of contamination migrating on-site from an adjacent property. Activities included a ground-penetrating radar survey, the installation of groundwater monitoring wells, groundwater and soil sampling, and data interpretation. Mr. Martinez was also involved as a technical resource during the legal negotiations with an adjacent property.

Southland Corporation, Retail Petroleum Service Line - Illinois, Indiana, Minnesota, Ohio and Wisconsin
Program Manager
Served as the Program Manager for projects related to the assessment and remediation of petroleum hydrocarbons from leaking underground storage tanks (USTs) in a five-state area. Activities included monitoring well installation, soil and groundwater sampling, data evaluation, waste disposal, and report preparation. Activities also included the performance of soil vapor extraction and aquifer pumping feasibility tests; designing and installing soil and groundwater remediation systems utilizing granular activated carbon adsorption systems, tray-type, and packed column air strippers; soil vapor extraction; bioventing; enhanced biodegradation; and air sparging.

Clarke Realty Builders Design/Build LLC & US Army Residential Communities Initiative – Fort Campbell Kentucky
Project Manager/Technical Lead
Served as the Project Manager for a US Army Residential Communities Initiative (RCI) project during the Community Development and Management Plan (CDMP) implementation. Mr. Martinez was responsible for the assessment and technical review of existing data concerning mold at Fort Campbell. Field activities included mold sampling and mitigation. He was also responsible for the preparation and implementation of a Mold Operations and Maintenance (O&M) Plan used at Fort Campbell. Mr. Martinez was involved in negotiating the final resolution of the mold issues with the lenders and the attorneys for the lenders.

Motorola, Environmental Compliance, Health & Safety, and Environmental Management Systems (EHSMS) Audit - Schaumburg, Illinois (2004)

Project Manager/Technical Lead

Project Manager for the development of an environmental compliance, health & safety, and environmental management systems (EHSMS) audit program for an international telecommunication company. The purpose of the EHSMS audit program was to identify areas of chronic or acute environmental non-compliance. A review of the compliance status of the facility's operations within the terms of applicable Occupational Safety and Health Administration (OSHA) regulations as well as corporate policies was also conducted. An evaluation of the effectiveness of the operation's management systems in achieving the corporate goals of regulatory compliance was completed. Based on the success of the program at the local level, the program is to be implemented globally.

Cornerstone Developers, LLC, Environmental Compliance Audit/Assessment and Litigation Support - Lincolnshire, Illinois

Project Manager

Project manager for the environmental compliance audit and subsurface Phase II assessment of a dry-cleaning facility in Illinois. The objective of the audit and subsurface assessment was to determine the potential impact to soil and groundwater beneath the property resulting from the use of hazardous chemicals on-site. The audit identified several areas of non-compliance and a Phase II was recommended. Subsurface exploration and sampling techniques included geoprobe direct push drilling methods. Sampling requirements followed RCRA and Illinois EPA guidelines. The project also involved entering the site into the IEPA Site Remediation Program. Mr. Martinez also provided technical litigation support and testified in court proceedings.

Kerr-McGee/USEPA, Remediation and Environmental Investigation - West Chicago, Illinois

Project Manager/Technical Lead

Project Manager for the subsurface investigation at a former industrial property that had radiation contamination. The objective of the investigation was to assess the potential impact to soil and groundwater beneath the property resulting from the suspected burial of drums. Subsurface exploration and sampling techniques included conventional hollow-stem auger drilling methods and digging test pits. Mr. Martinez underwent specialized radiation training and monitoring for the project. After the objects were determined to be generic refuse, all of the equipment and personnel underwent site specific decontamination. Mr. Martinez then arranged for the proper disposal of the refuse.

Aeronautical Parts Manufacturing Facility, Remediation and Environmental Investigation Review - Chicago, Illinois

Project Manager/Technical Lead

As member of AIG Regulatory Compliance and Cost Cap technical groups responsible for review of total expenditures spent for the investigation and clean-up at a specialized industrial facility, Mr. Martinez was the lead consultant examining the environmental insurance claims made by the property owner. Reviews were conducted of the subsurface investigations and corrective action plan implementation. The chosen clean-up technology was reviewed against cost effective industry standards. The claim was also reviewed for appropriate costs associated with the clean-up.

Southland Corporation, Design and Installation of Soil Vapor Extraction and Air Sparging Remediation System - Mishawaka, Indiana

Program Manager

A hydrogeologic investigation was initiated after adsorbed-phase petroleum hydrocarbons were detected during a municipal construction project. An extensive drilling program, which included geo probe direct push

drilling methods, was conducted to define the areal and vertical extent of the contamination. An SVE/AS pilot test was conducted to evaluate the feasibility of the remediation technology. The SVE/AS remediation system design and installation also included Indiana Department of Environmental Management air, water, and construction permit preparation. The SVE/AS system consisted of independent air compressors working in conjunction with a skid mounted vacuum system.

Monthly operation and maintenance activities include:

- soil vapor extraction/air sparge influent and effluent sampling;
- monitoring soil vapor extraction flow and vacuum rates;
- obtaining soil vapor extraction/air sparge bioactivity measurements (CO_2 and O_2)
- ground water monitoring; and,
- soil vapor extraction/air sparge system mechanical inspection.

Honeywell, Inc. Assessment and Installation of a Groundwater Remediation System - Arlington Heights, Illinois

Project Manager/Technical Lead

Served as the Project Manager for the assessment and installation of a groundwater remediation system at a major electronics manufacturing facility. The remediation system was installed to recover and treat groundwater contaminated with trichloroethylene (TCE). The groundwater recovery system consisted of a pneumatic, total fluids recovery pump. The treatment system consisted of a low profile, multi-tray air stripper. Mr. Martinez also supervised the preparation of federal NPDES and state (Illinois) wastewater treatment system construction and discharge permits. An SPCC was also prepared for the facility. Mr. Martinez was responsible for negotiations with the state while the project was enrolled included in the Illinois Site Remediation Program (formerly IEPA Voluntary Cleanup Program).

Zurich North America, Review of Environmental Claims - Chicago, Illinois

Project Manager/Technical Lead

Project Manager for the review of environmental claims against a major natural gas supplier in Chicago. The review included an analysis of submitted technical (sampling) reports, project status summaries, technical feasibility reports, invoices and additional financial documents. The data was then summarized and provided to the client with an analysis of risk and liability. Meetings were held with outside auditors/accountants and insurance personnel with Mr. Martinez as the technical lead.

Insurance Company, ISO 1400 Audit – Boston, Massachusetts

Project Manager/Technical Lead

An ISO 1400 audit was conducted at the Boston AIG office. Mr. Martinez was the technical lead in reviewing technical reports and environmental claims against corporate SOPs and guidelines. Recommendations were made in order for the office to achieve ISO compliance.

Marathon Oil, Installation of Groundwater Remediation System- Blue Island, Illinois

Project Manager/Technical Lead

Served as the Project Manager for the installation of a groundwater remediation system at a bulk petroleum storage facility, located adjacent to a waterway. The remediation system consisted of a pump and treat system with a low profile, tray-type air stripper. As a result of the actions taken, legal avenues were not pursued against the client.

Signature Flight Support/City of Chicago Department of Aviation, Emergency Response to a Spill of Aviation Fuel into a Sanitary Sewer Line- Midway Airport, Chicago

Project Manager/Technical Lead

Project manager for the emergency response to a spill of aviation fuel into a sanitary sewer line at a major airport. Project activities included the recovery and proper disposal of the aviation fuel. Mr. Martinez was also responsible for negotiations between the client, state, county, and local regulatory authorities. As a result of the immediate actions taken, legal avenues were not pursued against the client.

Illinois EPA, Regulatory Oversight – Assessment and Sampling, Sauk Village, Illinois

Environmental Specialist

Assisted in a regulatory investigation after vinyl chloride was confirmed in a municipal water supply during routine monitoring. An extensive drilling program was conducted to define the aerial extent of the contamination and responsible party. Activities included groundwater sampling, surface water sampling and review of all facility operations, past and present disposal activities and current compliance with applicable environmental regulations.

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH
525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

ALFREDO MARTINEZ
472 VALLEY VIEW DRIVE
BARTLETT, IL 60103

4/12/2023

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 19329

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 19329	**4/12/2023**	05/15/2024

ALFREDO MARTINEZ
472 VALLEY VIEW DRIVE
BARTLETT, IL 60103
Environmental Health

Back of License

ENDORSEMENTS	TC EXPIRES
INSPECTOR	3/3/2024

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov

Martha Madera

Martha Madera, Environmental Scientist

Ms. Madera joined Specialty Consulting, Inc. in 2021 as a recent graduate of the University of Illinois at Chicago. She has experience with geographic information system (GIS), construction oversight, soil management, and data analysis. While working onsite she has prepared field documentation including waste manifests, field exhibits, and photo logs. She has experience in the collection of soil and water samples for site investigations. She has also conducted various Phase I Environmental Site Assessments in compliance with the procedures included in the American Society for Testing and Materials (ASTM) E1527 13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

Education

Bachelor of Science, Earth and Environmental Science
Minor, Political Science – 2020 University of Illinois at Chicago
Chicago, IL

Associates in Science- 2018 Moraine Valley Community Science
Palos Hills, IL

Experience

2 Year

Expertise and Specialized Training

Construction Oversight
Field Documentation
Soil Sampling
Water Sampling

Licenses, Registrations & Certifications

OSHA 40-Hour HAZWOPER Certificate
OSHA 30 Hour Outreach Training Program - Construction
ASTM E1527 Training Certificate

Relevant Experience

Commonwealth Edison Modified Phase I Environmental Site Assessments – Chicago, IL (2023)

Environmental Scientist

Completed a modified Phase I Environmental Site Assessment for Commonwealth Edison to identify Recognized Environmental Concerns (RECs) and establish a baseline of site conditions prior to potential occupancy of the site by ComEd. The assessment included thoroughly investigating the Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. Additionally non-scope considerations were investigated at the Client's request. A detailed report of the findings was completed.

Commonwealth Edison Remediation Oversight Projects – Various Locations, IL (2021- Current)

Field Manager/ Environmental Scientist

Conducted construction oversight and material management at various Confidential Utility job sites, including substations. Prepared all necessary field documentation including waste manifests, field exhibits, and photo logs. Other responsibilities covered oversight of exported material, including both wet and dry spoils, and collaborating with contractors to schedule and organize material removal with

SPC's trucking client. Made sure erosion controls were in place, that ambient dust was under control, and that trucks were cleaned off prior to leaving the site. Furthermore, verified the location of generated spoils, and made sure dig permits and other necessary documentation were on-site. Also assisted in waste tracking activities for various job sites.

Commonwealth Edison Remediation Site Investigation – Various Locations, IL (2021 – Present)
Field Manager/ Environmental Scientist
Executed soil and/or water sampling and field screening for volatile organic vapors at various Confidential Utility job sites, including inside substation boundaries. Completed pre-work site walkthroughs which included staking sites and overseeing GPRS search for various underground utilities. Led daily safety meetings and verified all necessary paperwork, including site plans and permits were up -to -date and on-site. Collected samples using hand augers and from soil borings from Drill Rigs and GeoProbes from 3 ft to 15 ft below surface grade. Recorded PID readings of soils, soil descriptions, and daily summaries. Oversaw the installation of temporary water wells and executed groundwater sampling from water wells. Successfully coordinated with contractors and sub-contractors. Completed all lab paperwork including the Chain of Custody and labeling all the samples.

Commonwealth Edison Real Estate Program Support – Various Locations, IL (2022 – Present)
Environmental Scientist
Provided technical Support of Commonwealth Edison Real Estate program. Reviewed Service Requests from Commonwealth Edison Real Estate Department to determine if approvals could be granted or if additional information including a site inspection was needed for the Environmental Service Department. The review included looking at wetlands, permits, previous site investigation reports, previous Service Requests, previous communications, aerials, and other available information. Performed all required site inspections, and compiled site inspection reports. Coordinated with different internal departments to ensure all requirements are included in the response. Reached out to tenants with requirements and kept communications with Tenant's open. Updated information for clint, including making KMZ files of site boundaries, compiling legal folders, and providing recommendations. Worked with third parties and ESD to improve process.

Cook County Health Phase II Environmental Site Assessment- Various Locations, IL (2021-2022)
Environmental Scientist
Executed soil and water sampling and field screening for volatile organic vapors at various Cook County Health campuses. Completed pre-work site walkthroughs which included staking sites and overseeing GPRS search for various underground utilities. Led daily safety meetings and verified all necessary paperwork, including site plans and permits were up -to -date and on-site. Coordinated site access with Cook County Health personnel. Collected samples from a GeoProbe from 3 ft to 30 ft below surface grade. Completed soil boring logs and determined if temporary water wells should be installed in boring locations. Oversaw the installation of temporary water wells, then developed wells and collected purging data before collecting various water samples. Oversaw the removal of the temporary wells at the end of the project. Completed daily summary reports and lab paperwork including the Chain of Custody and all the sample labels. After field work assisted in report writing by transferring field notes and data to a workable format.

Forest Preserve District of Cook County Phase I Environmental Site Assessments – Cook County, IL (2022- Current)

Environmental Scientist

Completed Phase I Environmental Site Assessments for various Forest Preserve properties in Cook County. The assessment included thoroughly investigating Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. A detailed report was completed, including the findings and recommendations as related to the Subject Property.

Chicago Public Schools Due Diligence- Chicago, IL (2021-Current)

Environmental Scientist

Completed Due Diligence activities supporting pre-construction plans, including developing a soil exhibit showing soil classifications for soil removal activities for various Chicago Public Schools projects. This included thoroughly investigating schools historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records. Staked and called public utility locates to support soil sampling. Collected soil sample with hand auger and completed all lab paperwork. A summary of findings, including a soil exhibit, lab results, and supporting documentation was completed.

Muller and Muller Phase I Environmental Site Assessments – North Riverside, IL (2022)

Environmental Scientist

Completed Phase I Environmental Site Assessments for Muller and Muller at the North Riverside Armory. The assessment included thoroughly investigating the Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. Coordinated with on-site personnel to schedule and complete site visits and complete interviews. A detailed report was completed, including the findings and recommendations related to the Subject Property.

Muller and Muller Phase II Environmental Site Assessments – North Riverside, IL (2022)

Environmental Scientist

Executed soil sampling and field screening for volatile organic vapors at the North Riverside Armory. Completed pre-work site walkthroughs which included staking sites and overseeing GPRS search for various underground utilities. Led daily safety meetings and verified all necessary paperwork, including site plans and permits were up -to -date and on-site. Coordinated site access with on-site personnel. Collected samples from a GeoProbe from 1 ft to 3 ft below surface grade. Recorded PID readings of soils, soil descriptions, and daily summaries.

Chicago Housing Authority Phase I Environmental Site Assessments – Chicago, IL (2021- 2022)

Environmental Scientist

Completed Phase I Environmental Site Assessments for various Chicago Housing Authority properties. The assessment included thoroughly investigating the Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. A detailed report was completed, including the findings and recommendations related to the Subject Property.

F.H. Paschen Underground Storage Tank Removal- Harvard, IL (2021)

Environmental Scientist

Executed soil sampling and field screening for volatile organic vapors at a tank pull. Completed soil oversight for soil removal and backfill. Assisted in coordinating trucks for soil removal and verified the backfills uncontaminated state with landfill. Collected trucking tickets and completed photolog of on-site activities.

Shawn Niaki

Shawn R. Niaki, Ph.D., P.E., BCEE/DEE, QSD/QSP, CCM,

Senior Vice President - Remediation Engineering

Dr. Niaki is a Board-Certified Environmental Engineer (BCEE) and a Diplomate of American Academy of Environmental Engineers (DEE). He leads SPC as Senior Vice President of Remediation/Technical Engineering. Dr. Niaki has worked with SPC since 2000. Recently, he was the Remedial Project Manager (RPM) for the Navy BRAC/NAVFAC at their headquarter in downtown San Diego. Dr. Niaki is committed to providing services to assure that adequate quality-related requirements and procedures are specified and implemented for on-time execution of engineering and remediation/construction services to enhance safety, efficiency, and reliability in a cost-effective manner.

Dr. Niaki has over 46 years of US and International experience in leadership, technical, administrative, and client management in all aspects of site remediation/construction/restoration, including remedial investigation, feasibility study, design and implementation/construction; Site Remediation Program (SRP), NFR/NFA; underground and aboveground storage tank (UST/AST), LUST; PCB contaminated site investigations and remediation; Phase I and II ESA; TSCA, NEPA/CEQA, EIS and EA; site remediation (hazardous/RCRA/CERCLA, non-hazardous, and mixed waste); groundwater/water/wastewater/ stormwater, soil remediation; Title V Permit, and air environmental compliance, control; groundwater modeling; and geothermal and solar renewable energy; industrial hygiene; construction management; and multi-disciplinary project/program management and engineering, specifications, contract administration, auditing, value engineering, procurement, compliance audit, QA/QC, and health and safety.

Dr. Niaki has proven and successful operations management experience in corporate, division, and office levels; and managing multi-disciplinary staff and consultants locally, at multi-states, and internationally. For over four decades, he has functioned as team leader, project/program manager for over 2000 small and large multi-disciplinary projects/programs for many municipalities, government agencies (City of Chicago, CHA, CPB, CPS, CPD, Cook County, IMD, EPA, FAA, Air Force/AFCEE, Navy/NAVFAC/BRAC, Army Corps/Department of Homeland Security, and DOE and sites located in California, Guam, Hawaii, other states, as well as many agencies, and major Fortune 500 companies. Additionally, he has extensive international experiences in the Republic of Georgia, India, Korea, Venezuela, Jordan, West Bank/Gaza, United Arab Emirates, Afghanistan, Iraq, Yemen, Italy, Hungary, England, and Indonesia.

Examples, but a few, of Dr. Niaki's remediation projects include site remediation/closure of the EPA's Sand Creek Superfund Site, in Commerce City, Colorado; site remediation design and oversight for the CTA Skokie site's $300-million Construction/Modernization Program; under a contract with CPB, performed CSI, RI/FS, ROR, RAP, Remediation Oversight, RACR, and obtained NFR letter, for Chicago Cermak Teaching Academy (published in the IEPA Annual SRP Program, as an example of successful SRP); under a contract with the CPD, performed SRP activities for obtaining NFR Letter for the Chicago Gun Club along the Lake Michigan; obtaining NFR letters for many LUST sites in Chicagoland; site closures for AFCEE/Army/Aerospace/NASA nationwide; Soil Vapor Extraction System at the BP Pipeline Terminal in New Jersey; and Soil Vapor Extraction at a site in Italy, funded by the Italian Environmental Protection Agency. His other examples of environmental management experiences include many $150-$400-million site groundwater and soil remediation programs at the U.S. Army Corps of Engineers' Helen Kramer Superfund Site in New Jersey, Bayou Bonfouca Superfund Site in Louisiana, Sikes Superfund Site in Texas, and Groundwater Remediation Facility at their Rocksprings site in Wyoming.

Education

Ph.D., Civil/Environmental Engineering, University of Pittsburgh, Pennsylvania (GPA: 3.9/4.0)

M.S., Civil Engineering, University of Pittsburgh, Pennsylvania (GPA: 3.8/4.0)

M.S., Chemical Engineering, University of Pittsburgh, Pennsylvania (GPA: 3.7/4.0)

B.S., Chemical and Petrochemical Engineering, University of Polytechnic, Tehran, Iran (GPA:3.1/4.0)

All MBA Courses, University of Pittsburgh, Pennsylvania

Continued Education

SAME Conferences, Nationwide, from 1997 to Present;

ACECA and other construction/transportation/port Conferences, Los Angeles/Orange Counties, California, from 2008 to Present;

WW201-Wastewater-Treatment-Plants, 1PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Design-of-Small-Water-Systems, 3PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Process Design for Conversion of Biomass to Biofuels: 4 PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Hazardous Waste Identification, 2PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Ponds- Planning, Design, Construction: 2 PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Fundamentals of Metals: 5 PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

A Guide to Offshore Wind Energy, 2PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Fire Protection System Design: 3 PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Deterioration of Concrete: 2 PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Carbon Adsorption of Volatile Organic Compounds, 3 PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Distressed Pavements Identification: 3 PDH, Ezekiel Enterprises, New Smyrna, FL, 2018

Turner School of Construction Management Certification, Los Angeles, California, 2012;

Water Resources Management and Regulations Update, EPA, Chicago, Illinois, 2004;

Environmental Regulations for the Construction and Demolition Industry and Building, Chicago, Illinois, 2004;

Contracts Mechanical Lien, Harraw & Harrow Law Firm, Chicago, Illinois, 2003;

Capital Project Management, Capital Development Board, State of Illinois, 2002;

Risk Management Plans, EPA, Houston, Texas, 1996;

Advanced Biological Nutrient Removal Processes, Virginia Polytechnic Institute and State University, Roanoke, Virginia, 1996;

Pollution Prevention, Amman Chamber of Industry, Amman, Jordan, 1995;

Air Pollution Abatement Technologies, University of California/Berkeley, 1993;

Advanced Project Management, IT Corporation, 1988;

Project Management Professional Development/ Primavera, IT Corporation, 1986;

Economics of the Firm, University of Pittsburgh, Pittsburgh, Pennsylvania, 1986;

Most of Graduate Courses in MBA, University of Pittsburgh, Pennsylvania, 1982-1984; and

Most of Graduate Courses in Material Engineering, University of Pittsburgh, Pennsylvania, 1980-1982.

Experience

Total over 47 years

Professional Societies

American Academy of Environmental Engineers, American Society of Quality Engineers, Air Water Waste Association; American Institute of Chemical Engineers; American Society of Civil Engineers; Chi Epsilon Civil Engineering Honor Society; National Society of Professional Engineers; Pennsylvania Society of Professional Engineers; Water Pollution Control Federation

Licenses, Registrations & Certifications

Professional Registrations*: California, Texas, Illinois, Iowa, Michigan, Pennsylvania, and Wisconsin*

Asbestos Project Designer*: Illinois, Iowa*
Board Certified Environmental Engineer (BCEE)
Qualified Stormwater Developer (QSD),
Qualified Stormwater Practitioner (QSP),
Certified Construction Manager (CCM),
40-hr HAZWOPER.

Expertise and Specialized Training
Environmental Remediation/Construction
ESA, SRP/NFR, SWPPP, UST/ LUST,
NEPA/CEQA and EA/EIS, PFAS,
Water/Wastewater/Groundwater, Enviro.
Compliance, Title V, SPCC, CWA/CAA

Relevant Experience

Hazardous Waste/Site Remediation/Brownfield & Design and Construction (Partial list)

U.S. Department of Energy Dual Phase Extraction (DPE) for VOC Remediation of Soil and Groundwater at the Stanford Linear Accelerator Center (SLAC) at the Stanford University, Menlo Park, California, U.S.A.
Technical Lead
Technical lead for design and installation of the DPE systems for remediation of soil and groundwater contaminated with volatile organic compounds (VOCs) at the SLAC site. Responsibilities included a review of the detailed process design, installation oversight, testing, startup, and turnover of the treatment systems to SLAC/DOE. The project involved installation of 26 DPE wells at the Plating Shop Area and 6 DPE wells at the Test Laboratory and Central Laboratory Area. Each DPE system consists of extraction wells, a dedicated air-driven pump, as described for the PSA DPE system, to extract groundwater, an aboveground positive-displacement blower, an air/moisture separator (knock-out drum), and an air scrubber, for treatment of the exhaust air, when needed. Upon completion of the remediation, the site will be available for future residential uses.

USEPA Superfund Site Cleanup Design, Colorado, U.S.A.
Project Manager
Managed remedial assessment, feasibility studies, and detailed design, procurement, and construction oversight for cleanup of an NPL site with pesticide-contaminated soil, in commerce City, Colorado. Low-Temperature Thermal Desorption process was selected and used for soil cleanup. This process saved the USEPA over $22 million, as compared to another process selected by the USEPA for site clean-up.

Chicago Public Building Commission Teaching Academy/Cermak School Site Remediation Program Services, Chicago, Illinois, U.S.A.
Project Manager
Managed a Site Remediation Program (SRP) for obtaining a No Further Remediation (NFR) Letter for the Future Teaching Academy/Cermak School site, located near Chinatown in Chicago. The NFR Letter was recently received from the Illinois Environmental Protection Agency (IEPA) GSG was retained by the Chicago Public Building Commission (PBC) to provide (1) Phase II ESA, (2) the entire services required to obtain the NFR Letter under the SRP, and (3) the field oversight during the demolition/ remediation activities involving 150 trucks per day soil off-site disposal. A $55-million Teaching Academy was constructed at this site.

Chicago Transit Authority (CTA) Environmental Management, Illinois, U.S.A.
Project Director
Directed and designed environmental management of a construction project for the CTA at a facility in Chicago. Remediation design included remedial investigation, site characterization, risk assessment, and

cleanup of soil contaminated with PCBs and PAHs in a hazardous waste drum storage facility. A comprehensive site delineation and negotiations with IEPA, resulted in a savings over $2 million in remedial costs. The total construction cost at the facility was $300 million.

U.S. Army Corps of Engineers (USACE) and U.S. Department of Energy (USDOE) Soil and Groundwater Remediation Design and Implementation, U.S.A.

Project Manager

Managed, developed designs, and supervised implementations for remediation of soil and groundwater for $150 to $400 million projects for USACE and U.S. Department of Energy Sites, located at Bayou Bonfuca, Helen Kremer, and Fernald Nuclear Processing facilities.

Confidential Aerospace Manufacturing Soil Vapor Extraction Projects, Multiple Sites, Los Angeles Area, California, U.S.A.

Technical Advisor

Technical Advisor for soil extraction, using GEO Systems, for three sites contaminated with PCE, TCE, DCE, Chloroform, and 1-4 dioxin. One of the sites is converted into a shopping plaza. A Remedial Action Plan for site remediation was approved by the Regional Water Board on April 12, 2005. GEO process, a cryogenic technique, was used to operate the vapor recovery systems (VRS) at the site for cost reduction. The recovered vapors are being condensed, collected, and destroyed at an offsite permitted incineration facility. A central treatment facility was constructed for long-term SVE remediation of the soil and groundwater at each site. More than 40 tons of COPCs have been removed from these sites.

Naval Facilities Engineering Command Remedial Action at Anderson AFB, Yigo, Guam

Technical Advisor

Technical Advisor for preparation of a work plan to perform a remedial action for soil that contains metals (specifically cadmium, chromium, copper, and lead), and polycyclic aromatic hydrocarbons (PAHs). The remedial action involved UXO clearance, excavation of contaminated soils, stabilization, site restoration, on-site disposal, and transportation and shipment of hazardous waste to the U.S. for final disposal. This Work Plan also incorporated a Project Quality Control Plan (PQCP), a Site Health and Safety Plan (SHSP), the project schedule, and a site-specific Sampling and Analysis Plan (SAP). All activities were in compliance with the CERCLA requirements.

Naval Facilities Engineering Command Remedial Action at MARBO Annex Sites, Anderson AFB, Marianas, Guam

Technical Advisor

Technical Advisor for preparation of a work plan to perform a remedial action, at three sites, for soil that contains metals (arsenic, cadmium, lead, and vanadium), Polycyclic aromatic hydrocarbons (PAHs), Polychlorinated biphenyls (PCBs), Total petroleum hydrocarbons (TPH). In addition, asbestos-containing materials (ACM) were also to be removed. The remedial action involved UXO clearance, excavation of contaminated soils, stabilization, site restoration, on-site disposal, and transportation and shipment of hazardous waste to the U.S. for final disposal. This Work Plan also incorporated a Project Quality Control Plan (PQCP), a Site Health and Safety Plan (SHSP), the project schedule, and a site-specific Sampling and Analysis Plan (SAP). All activities were in compliance with the CERCLA requirements.

US Air Force/AFCEE API Standards 653 and 570 Inspection, Oman, Yemen

PE Reviewer

PE Reviewer for API Standards 653 and 570 inspections, of a storage tank and piping, respectively, for 10 tank systems located at a US Air Force Base in Oman, Yemen. Each inspection was conducted to collect

data in order to evaluate the mechanical integrity and fitness for continued service of the tank system. The floor of each tank was scanned utilizing Magnetic Flux Exclusion (MFE) technology in order to assess the underside condition. Based on the inspection the life of the tank and the date for the next inspection for each tank system were recommended.

Various Commercial Clients API Standards 653 and 570 Inspection, Various Locations, U.S.A.
PE Reviewer
PE Reviewer for API Standards 653 and 570 inspections, of a storage tank and piping, respectively, for various tank systems located at various fuel operation facilities located in various states. Each inspection was conducted to collect data in order to evaluate the mechanical integrity and fitness for continued service of the tank system. The floor of each tank was scanned utilizing Magnetic Flux Exclusion (MFE) technology in order to assess the underside condition. Based on the inspection the life of the tank and the date for the next inspection for each tank system were recommended.

U.S. Army Corps of Engineers, Tulsa District Environmental Management System (EMS) Implementation Plan and Handbook for Department of Homeland Security's Custom Border Protection (CBP) Facilities, Washington D.C., U.S.A.
Technical Director
Technical director for development and preparation of the EMS Implementation Plan (Plan) as well as the Handbook. Responsibilities included technical quality and completeness of the draft and final deliverables and workshops associated with the Plan and the Handbook, through directing, comprehensive review of the documents, and attending communication events with CBP. The Plan describes how the CBP will develop and implement an EMS as required by the Executive Order (EO) 13423 - *Strengthening Federal Environmental, Energy, and Transportation Management* (2007) and the CBP Directive 5270-008A - *Environmental Management Program* (EMP) for achieving, maintaining, and monitoring compliance with pollution control and other environmental requirements. The Handbook describes how CBP implements its EMS. This Plan will be used by CBP for compliance with the Federal and State and all applicable requirements. This project also involved the preparation of PowerPoint presentations and participating in frequent conference calls with CDM, the U.S. Army, and the Department of Homeland Security staff.

U.S. Army Corps of Engineers, Tulsa District Comprehensive EMS Inspections for 17 Department of Homeland Security's Custom Border Protection Facilities, Various States, U.S.A.
Senior Technical Reviewer
Senior Technical reviewer of the inspection reports for CBP's border facilities at 17 sites located at California, Florida, Michigan, Port Rico, New Mexico, and Texas. Each report consisted of the site Pre-visit Questionnaire prepared by the inspector, summaries of each facility's compliance with the Federal and State requirements, and a Site Visit Report summarizing the inspection findings with non-compliances and recommended corrective actions. The Federal and State requirements include Air Emission Management; Hazardous Material Management; Hazardous Waste Management; Petroleum, Oil, and Lubricant Management; Solid Waste Management; Storage Tank Management; Wastewater Management; and Water Quality Management. These reports will be used as a format for the conduct of routine Environmental Compliance Site Inspection at each facility. This Handbook will be used by CBP for compliance with the Federal and State and all applicable requirements. This project also involved the preparation of Assessor Training document, PowerPoint presentations, and participating in frequent conference calls with CDM, U.S. Army, and Department of Homeland Security staff.

Air Force/AFCEE Phase II/Preliminary Site Investigation, Naval Air Station North Island, San Diego, California, U.S.A.

Project Manager

Manager for preparation and submittal of a work plan and investigation report for conducting a remedial site assessment in accordance with the SAM Manual and San Diego Department of Environmental Health (DEH) requirements at NASNI. Due to a leaky fuel line located under a taxiway at NASNI, the soil was contaminated with petroleum hydrocarbons. The leaky line was replaced with a new line. This project was involved with stepwise site investigation and remediation. Based on the DEH approved work plan, soil and groundwater samples were collected for site characterization. A site investigation report was prepared for DEH approval. Work was completed on time and within the budget. The site investigation report was uploaded on Geotracker.

Ashland Oil Groundwater Remediation at the Ashland Petroleum Terminal Sites, Floreffe, Pennsylvania, U.S.A.

Project Manager

Managed detailed design and construction oversight for groundwater remediation system for the Ashland Petroleum's site at its Floreffe Terminal in Pennsylvania. A diesel spill from a 4-million-gallon tank at this site resulted in contamination of soil and groundwater. The groundwater treatment system consisted of equalization, oil/water separation, filtration, air stripping, and carbon adsorption processes.

Italian Environmental Protection Agency Soil Vapor Extraction, Alessandria, Italy

Project Manager

Managed, designed, and installed soil vapor extraction system for remediation of Carbon Tetrachloride (TCA) contaminated soil. A total of 3.5 tons of TCA was extracted within a 2.5-month period, at over 99% estimated recovery.

BP Pipelines Soil Vapor Extraction at BP Oil Terminal, Woodbury, New Jersey, U.S.A.

Project Manager

Managed, designed, installed, and operation of a soil vapor extraction system at a BP Pipelines Terminal in Woodbury, New Jersey. At this location, an estimated 1,924 barrels of jet fuel spilled during the fill-up of a Jet Fuel Storage Tank.

Aluminum Company of America (ALCOA) Free Product Recovery, West Virginia, U.S.A.

Project Manager

Evaluated various free product recovery systems available, for an ALCOA site with a leaking surface impoundment. As part of this evaluation, design and installed a pilot system to evaluate the performance of a two-pump system for your use in full-scale operations.

U.S. Environmental Protection Agency (USEPA) Leak Detection Methods Testing Facility for UST, New Jersey, U.S.A.

Project Manager

Designed the USEPA's controlled testing facility at the Edison N.J. to test the performance of leak detection methods for underground storage tanks.

Kroger Groundwater Remediation Design and Construction, West Virginia, U.S.A.

Project Manager

Managed assessment and remediation design and construction oversight projects for a site with leaking underground systems. Remediation included site investigation, risk assessment, and recovery of free oil from the groundwater.

Pittsburgh, Paint and Glass Industries, Inc (PPG) Groundwater Remediation Design and Construction at PPG Site, Barberton, Pennsylvania, U.S.A.

Project Manager

Managed design and construction of the groundwater remediation system for PPG's facility for removal of volatile organics, mainly trichloroethylene and diethylene glycol. The treatment system included chemical precipitation of heavy metals and iron, clarification, air stripping, steam regenerable carbon adsorption, and biological treatment. The facility was operated until the concentration of the pollutants reach acceptable concentration levels.

ARCO, Exxon, Union Carbide, and Sun Oil Soil and Groundwater Remediation Projects, U.S.A.

Project Manager

Managed, performed feasibility studies, developed designs, and supervised implementations for remediation of soil and groundwater contaminated with organic and inorganic priority pollutants for multi-million dollars projects. The treatment process for soil remediation included in-situ soil vapor extraction, bioremediation, and soil flushing. Treatment processes for groundwater remediation included in-situ bioremediation, air sparging, and pump and ex-situ treatments.

Metropolitan Water Reclamation District (MWRD) Cyanide Early Warning Monitoring, Illinois, U.S.A.

Project Manager

Managed a research and development project for performance evaluation of online instruments capable of monitoring the accidental release of cyanide to the MWRD.

Vine Hill/Baker Wastewater Treatment Plant and USDOE Soil and Wastewater Treatment Systems Design, California/Ohio, U.S.A.

Technical Lead

Performed feasibility study, risk assessment, process engineering, conceptual and detailed designs, and economical evaluations of biological, physical/chemical, and advanced solid and wastewater treatment systems for industrial and nuclear plants for projects ranging $30 to $80 million, including Vine Hill/Baker wastewater treatment plant in California and USDOE's Fernald Facility in Ohio.

USDOE, Vine Hill, ALCOSAN Sewage Treatment Facilities, Ohio/California/Pennsylvania, U.S.A.

Project Manager

Designed and enhanced a variety of sewage handling systems for different industrial facilities. These facilities included a radioactive processing plant consisting of a 2,000-acre site owned by USDOE, located in Fernald, Ohio; a sewage distribution pipe to a municipal sewage treatment plant at a wastewater treatment plant in Vine Hill, California; and a variety of municipal sewage treatment plants including Allegheny County Sanitary (ALCOSAN) Plant in Pittsburgh and Plumboro, PA. Activities included piping design, collection, and distribution system designs, pump and pumping station design, sewage treatment plant design and evaluation, stormwater system design, sewer system design and construction, sludge treatment, and financial considerations.

Cook County Dept. of Development and Planning Phase II ESA, Wyman-Gordon Industrial Facility Site, EPA Brownfield Pilot Program, Dixmoor, IL, U.S.A.

Project Manager

Managed the Cook County/City of Dixmoor Phase II Environmental Site Assessment (ESA) for the Northern Portion of the former Wyman-Gordon Steel Forging Industrial Facility. The fieldwork involved soil, groundwater, and drum sampling. This project was performed under the EPA Brownfield Pilot Program. The site encompasses approximately 15 acres. A comprehensive Quality Assurance Project Plan (QAPP),

Sampling and Analysis Plan (SAP), Standard Operating Plan (SOP), and site-specific Health & Safety Plan were prepared for EPA approval, prior to the fieldwork.

Chicago Park District, Chicago No Further Remediation (NFR) Letter for Grant Park Service Yard, Illinois, U.S.A.

Project Manager

Managed additional field investigations for securing an NFR Letter from Illinois EPA. Several USTs were removed at this site. Laboratory analytical results on the confirmatory samples indicated that benzene and some PAHs are exceeding the ingestion limits for soil for the residential scenario. Using the City of Chicago Ordinance for the groundwater, a clay-layer installed during the site remediation, and additional groundwater and soil sampling using Geoprobe are used to justify an NFR for this site.

U.S. Army Corps of Engineers, Omaha District Duluth International Airport, Minnesota, U.S.A.

Project Manager

Performed feasibility studies including natural attenuation for the Duluth International Air Force Site in Minnesota. The soil and groundwater at this site are contaminated with chlorinated volatiles, mainly trichloroethylene (TCE). Alternatives considered for feasibility study included natural attenuation, Iron Wall, Funnel & Gate, intercept recharge, pump and treat, in-situ bioremediation, carbon adsorption, air sparging/vacuum extraction, and dual-phase extraction.

City of Chicago Phase II Environmental Site Assessment (ESA) at a Brownfields Site, Illinois, U.S.A.

Project Manager

Managed a Phase II ESA for a 7-acre parcel on Kildare Avenue, in Chicago, Illinois. Most of the site was used as an illegal construction debris dumpsite. Investigations included collection and chemical analysis of subsurface samples from seventeen borings to determine the presence of contaminants in site soils. TCE was found as the primary contaminant of concern. Using a tiered approach to soil cleanup, the results of the ESA are used as documentation in support of entering the site into the Illinois Site Remediation Program. The City's goal is to promote redevelopment of the property as a Brownfields site.

Italian Environmental Protection Agency Soil and Groundwater Remediation Alternative, Alessandria, Italy

Project Manager

Developed the soil and groundwater remediation alternatives for a storage facility in Alessandria, Italy. Remedial alternatives evaluated included soil air purging and/or soil flushing, and groundwater treatment by natural flushing or pump-and-treat processes using air stripping and activated carbon treatments.

U.S. Army Corps of Engineers (USACE) and U.S. Department of Energy (USDOE) Soil and Groundwater Remediation Design and Implementation, U.S.A.

Project Manager

Managed, developed designs, and supervised implementations for remediation of soil and groundwater for $150 to $400 million projects for USACE and U.S. Department of Energy Sites, located at Bayou Bonfuca, Helen Kremer, and Fernald Nuclear Processing facilities.

Water/Water Resources/Wastewater Audit, Design, and Construction/Remediation (Partial List)

SUEZ in France/SIDA, World Bank, EIB (2017-2021) World Bank/SIDA/EIB Industrial & Municipal WWTPs Designs & Constructions, and O&Ms at 2 Cities (Telavi and Tskaltubo). Republic of Georgia

Senior Process/Design Engineer and Water Conservation Expert

Senior Process/Design Engineer and Water Conservation Expert responsible for review of the conceptual design and comprehensive Environmental Assessment Studies (EAs), review of detailed design and implementation, O&M and P&ID preparation/review and approval, cost estimations, contractors supervisions/meeting, site inspections to ensure proper siting for new facilities and the construction activities are implemented as per design; construction supervision, assistance in quality monitoring and contract management in the field for project loan towns. These projects involved conceptual and detailed design and construction and O&M of 7-MLD and 15-MLD sanitary/ wastewater treatment plants (STPs/WWTPs) in two project cities.

SWECO-Denmark/ADB $800-Million Asian Development Bank (ADB) Funded Projects for Construction of 20 WTPs/WWTPs in 12 Cities in Rajasthan, India

Senior Process/Design Engineer and Water Conservation Expert

Senior Process Engineer and Water Conservation Expert responsible for design and preparation of detailed project report (DPR) as well as Bid Documents, O&M and P&ID preparation/review and approval, cost estimations, contractors supervisions/ meetings, Water Treatment Plant (WTPs), and Wastewater Treatment Plants (WWTPs) (using SBR/ Activated Sludge Process, Stabilization Ponds), site inspections to ensure proper siting for new facilities and the construction activities are implemented as per design; construction supervision, assistance in quality monitoring and contract management in the field for 12 project loan towns.

Forest Preserve District, Chicago, Illinois Development of the Storm Water Management Policy, Illinois, U.S.A.

Project Manager

Managed development of a Storm Water Management Policy for the Cook County Forest Preserve District, the biggest landowner in the State of the Illinois. The main criteria of this policy include water quality, total maximum daily loads (TMDL), velocity, volume, and vegetation.

Abt Associates, Inc/USAID Technical Advisor --$450-Million Water/Water Resources and Wastewater Rehabilitation Project, Funded by USAID/World Bank/EU, Amman, Jordan

Senior Technical Advisor

Dr. Niaki, as a senior technical advisor, performed projects involving Water Production and Quality, Water Operation and distribution, Wastewater Collection and Operation, Technical Services, Customer Services, and Billing/Recovery, Finance and Procurement, and Human Resources and Training. Water Authority of Jordan (WAJ) contracted the joint venture firm of LEMA, an international water/wastewater systems operator (operator), for the management and administration of the water and wastewater systems serving a defined Service Area in Greater Amman effective July 31, 1999. LEMA has responsibility for meeting goals established and adjusted by WAJ to increase the quantity of water and improve the quality of water and wastewater and the management of the water and wastewater systems serving the Contracted Service Area. The objectives of the audit are to verify that performance is in accordance with the contract operating requirements.

Dr. Niaki inspected almost all facilities, sites, water towers, new piping installation and repair, water and wastewater treatment plants, GIS development, and training and procurement activities for this project. He developed innovative financing schemes for financing the WAJ Project Management Unit (PMU) on the establishment of Water regulatory boards and assisted PMU and LEMA to operate on a cost-recovery basis for debt restructuring and reduction of the budget deficit/debt of over $10-$14 million per year unpaid water dues by the costumer.

Vine Hill/Baker Wastewater Treatment Plant Enhanced Thin Film Evaporator, Martinez, California, U.S.A.

Project Manager

Designed and enhanced thin-film evaporator (ETFE). ETFE is a solar process capable of converting liquid wastes to solid wastes at a rate of 150, 000 gallons per day for the Vine Hill/Baker wastewater treatment plant. The total cost for the installation of ETFE was approximately $30 million.

Vine Hill/Baker Wastewater Treatment Plant Site Cleanup, Martinez, California, U.S.A.

Project Manager

Designed treatment processes for the reduction of organic and inorganic inventories of 300,000 yd^3 of hazardous sludge for closure of several surface impoundments at Vine Hill site in California. Treatment and disposal included steam distillation, landfarming, stabilization/solidification, and landfilling.

U.S. Navy Remedial Measures, Port Hueneme, California, U.S.A.

Project Manager

Developed Remedial Measures Initiation Decision Report for Naval Civil Engineering Laboratory, Port Hueneme, CA. These remedial measures were used for soil and groundwater remediation at the Navy's sites.

Confidential, River Bank, California Design and Installation of a Wastewater Treatment Plant for a Metal Finishing Industry, U.S.A.

Project Manager

Managed a project for design and installation of a wastewater treatment plant for treatment of the wastewater discharge from a metal finishing facility. The plant consists of lifting stations, neutralization tanks, precipitation tanks, sludge thickener, filter press, and Reverse Osmosis system for additional treatment of the pretreated water for reuse/recycling.

Catchment Consortium Technical Consultant £60-Million EU Funded Project, for Modernization of Wastewater Treatment Plant, Moray Firth, Scotland

Project Manager

From 2003 to 2005, Dr. Niaki was a consultant to the Catchment Consortium, on a £60-million EU-funded project, for the modernization of wastewater treatment along the Moray Firth, the largest firth in Scotland. The work was performed based on the EU Urban Wastewater Treatment Directive. The project involved the construction of three new wastewater treatment plants with a total capacity of 60,000 cubic meters per day serving over 55,000 population, as well as new sewers consisting of 46km of sewer line, 22 pumping stations, 8 km gravity sewer, sludge treatment, and discharge short and long outfalls into the Mediterranean Sea. The wastewater treatment plant consisted of screening and de-gritting, Sequencing Batch Reactors (SBR) biological treatment. All tanks were covered. Gases are removed from each tank and building and passed through a scrubber system and then exhausted through a stack, to remove H2S, in order to control odor.

U.S. Trade and Development Agency (USTDA) Technical and Economic Feasibility Study for Water Resources/Wastewater Rehabilitation. Batam Island, Indonesia

Project Manager

Performed comprehensive evaluations for institutional, financial, and technical aspects of a $150-million Water- Wastewater Refurbishment project in Batam Island, Indonesia. The main objective of this project was to develop the design for water and wastewater systems, evaluate the potential profitability of the project under certain cost and tariff considerations, and prepare a financial plan for donor

sources/investors (International Finance Corporation [IFC] of World Bank, Overseas Private Investment Corp [OPIC], Asian Development Bank [ADB], and Export-Import Bank [EXB]). The project involved the design and installation of water and wastewater systems/facilities totaling 70,000 and 59,000 m3 per day capacities, respectively, for industrial, commercial, and residential uses.

United States Agency for International Development (USAID) Seawater Desalination Feasibility Study and Design, Gaza, Palestine

Project Manager

Managed and performed process feasibility study for production of 15 million liters per day potable water through seawater desalination and distribution to residents of Gaza in West Bank. The project involves data collection on reverse osmosis (RO) technology options, processes, experience in their use, relevance to scale of demands to be met, life-cycle cost, energy requirements, modularity, maintenance requirements, potential environmental concerns, and assisting Palestinian Water Authority (PWA) in tariff restructure as well as financial and cost recovery.

U.S. Agency for International Development (USAID) Pollution Prevention/Waste Minimization and Water Conservation, Amman, Jordan

Director and Project Manager

Directed and managed the pollution prevention/waste minimization, and water conservation program of a $42- million water quality improvement and conservation project, funded by USAID, in Amman, Jordan. This involved comprehensive inspections of most of the municipal wastewater treatment plants in Jordan; as well as Al Samra, Aqaba, and Wadi Mosa Wastewater Treatment Plants; recommendations for improvement of these plants; design of processes for pollution prevention and control and water conservation for over 40 major industrial facilities including a refinery and a thermal power plant with direct or indirect discharge to the Wastewater Treatment Plants; and in- and out-of-country training and NGO management.

USAID Design and Construction of a Wastewater Treatment System at Jordan Yeast, Amman, Jordan

Project Manager

Managed feasibility study, design, and construction of an anaerobic wastewater treatment facility for a yeast manufacturing plant in Jordan. This work was performed as part of an industrial wastewater pollution prevention/waste minimization project funded by the USAID. The wastewater treatment plant was operated as a full-scale pilot plant to demonstrate feasibility for the construction of a full-scale wastewater treatment plant.

U.S. Army Corps of Engineers Wastewater Treatment Design and Construction at Bayou Bonfouca NPL Site, Louisiana, U.S.A.

Project Manager

Managed detailed remedial design and construction oversight for a 500-GPM wastewater treatment plant at Bayou Bonfuca NPL site in Louisiana. The treatment system consisted of primary and tertiary treatment processes for the removal of PCBs and other organic contaminants. The oil/water separator, filtration systems, and granular activated carbon vessels were designed to remove free phase and dissolved creosote to below-established discharge limits. Major components of the treatment system included an oil/water separator, filter-feed tank, sand filter vessels, oleophilic filters, granular activated carbon vessels, backwash tank, recovered oil tank, post aeration tank, stormwater sump, air compressors, air dryer system, and air blower.

U.S. Army Corps of Engineers Wastewater/Leachate Treatment Design & Construction at Helen Kramer Superfund Site, New Jersey, U.S.A.

Project Manager

Managed design and construction oversight of the on-site lagoons and a groundwater/leachate collection and treatment system at this site. The treatment system included chemical precipitation for removal of heavy metals, clarification, air stripping, and activated carbon adsorption for removal of volatile organic compounds.

U.S. Army Corps of Engineers, Rock Springs, Wyoming Design & Construction - In-Situ Groundwater Treatment Systems at Retort Zone in Oil Shale, Wyoming, U.S.A.

Project Manager

Managed design and construction of a $1-million system at two former DOE's retort sites in Wyoming. Retort zones at 130- to 250- foot depths were fractured by underground explosives, in order to enhance the oil shale recovery by fracturing the zone. As a result, the groundwater in the retort zone is contaminated with BTEX compounds at 100 to 1,500 ppm levels. Enhanced in-situ biological and oxidation processes are used in these sites. Bench-Scale Testing was conducted for evaluation of biological treatment by injection of nutrients and air. Oxidation processes utilizing hydrogen peroxide and potassium permanganate were conducted to evaluate the performance of each oxidant. Results of the bench-scale testing were used for the selection of optimum parameters for the design of the pilot testing systems. The process was designed for operations under extremely cold weather.

Chris Craft Industrial Products, Inc. Design and Construction Oversight for Installation of Sewer System, Indiana, U.S.A.

Project Manager

Managed conceptual and detailed designs preparation, specifications, local and State permitting, as well as construction oversight for installation of a sewer system for a plastic film manufacturing facility in Gary, Indiana. The design included a 1,200-foot sewer line from the facility to the Gary Sanitary District manhole. Activities also included internal piping.

Korea Water Resources Corporation (KOWACO), Seoul Shihwa Municipal Wastewater Treatment Plant Facility Upgrade, Korea

Technical Lead

Technical lead for upgrading a 142-million-gallon- day municipal wastewater treatment plant in Shihwa Industrial Development Area in Korea. The plant is owned by the Korea Water Resource Corporation (KOWACO). The plant upgrade involves modeling advanced biological nutrient removal processes including A2/O for nitrogen and phosphorous removal, early warning monitoring, and assisting KOWACO in tariff restructure, financial and cost recovery.

Korea Water Resources Corporation (KOWACO), Seoul, Korea Kumi Municipal Wastewater Treatment Plant Pilot Testing and Design Advisory, Kumi, Korea

Project Manager

Managed and provided advisory assistance for conducting pilot treatability testing for Mainstream, side stream, and sequencing biological reactor processes for removal of nutrients from a municipal wastewater treatment plant in Kumi, Korea. Based on the results of the 1st-stage Pilot Testing, a process was selected for a 2nd-stage Treatability Testing. Results of the 2nd-stage Pilot Testing were used to design parameters for the full-scale design of the wastewater treatment plant. This involves the utilization of activated sludge models for BOD, COD, nitrogen, and phosphorus removals and assisting KOWACO in tariff restructure, and financial and cost recovery.

U.S. Army Corps of Engineers Municipal Wastewater Treatment Plant Design Evaluation, Fort Carson, Colorado, U.S.A.

Project Manager

Managed the wastewater treatment plant design evaluation for a facility serving the U.S. Army Corps of Engineers housing complex located in Fort Carson. The design includes primary, secondary, and tertiary treatment systems.

U.S. Trade and Development Agency (US TDA) Three Corpoven Refineries Wastewater Treatment Facility Feasibility Study, Venezuela

Project Manager

Managed feasibility studies for the design and upgrade of wastewater treatment plants at three Corpoven refineries in Venezuela. Based on a comprehensive audit, staff interview, and process design drawing review at each refinery, a feasibility study was performed and a detailed design for the wastewater treatment plant was developed. The wastewater treatment plants involve biological wastewater treatment processes for the removal of nitrogen, phosphorous, and organics.

Resort Development Corporation, SanJohn, El Salvador Package Water and Wastewater Treatment Plant Design Specifications, El Salvador

Project Manager

Evaluated different physical, chemical, and biological processes. Based on the evaluation, package plants for water and wastewater treatment plants for the construction of a resort area with 200 rooms, several restaurants and bars, and a club facility were selected. An in-ground package for the treatment of sanitary wastewater was specified. The water treatment package consisted of a Reverse Osmosis (RO) system and a one-day water tank. The source of the drinking water was a river adjacent to the resort facility.

Chris Craft Industrial Products, Inc. Design and Construction Oversight for Installation of a Cooling Tower System, Indiana, U.S.A.

Project Manager

Managed preparation of conceptual and detailed designs, specifications, and permitting, as well as construction oversight for installation of a cooling tower system for a plastic film manufacturing facility in Gary, Indiana. The design included a closed-loop cooling tower to replace a once-through and non-contact cooling water system at the facility. Non-contact and once-through cooling waters from other existing coolers were utilized as the makeup water for cost savings.

Federal Aviation Authority Environmental Impact Study for O'Hare Airport Modernization Plan, Chicago, Illinois, U.S.A.

Project Manager

Managed preparation of the EIA for the O'Hare Airport $6-billion Modernization Plan, in Chicago, Illinois. This project involves hydrology/water quality/floodplains (including HEC-1 and TR-55 modeling), hydraulics and water conveyance, stormwater management, wetland delineation, ecological study, clean water act, hazardous waste management, social and economic, endangerment species and wildlife habitats, and other issues.

Chris Craft Industrial Products, Inc. Design and Construction Oversight for Clean Closure of a Biopond, Indiana, U.S.A.

Project Manager

Managed conceptual and detailed designs preparation for the closure of process bio pond for a plastic film manufacturing facility in Gary, Indiana. The Bio Pond was used to store water that comes in contact with the plant process chemicals including polyvinyl alcohol. The activities for the closure of the Bio Pond include survey pond, sampling, preparation of a closure plan including technical specifications for closure action, dewatering, excavation, handling, and disposal, fill placement, compaction, health, and safety requirements, sampling requirements, regrading plan, and area usage plan cost estimate, and schedule; preparation of Closure Action and closure certification report with backup documentation.

CEQA/NEPA (Partial List)

Port of Long Beach, California Final EIS for Port of Long Beach Middle Harbor Expansion, U.S.A.

Project Manager

Reviewed the Final EIS for the Port of Long Beach Middle Harbor Expansion Project, finalized in 2009, in accordance with CEQA/NEPA.

Department of Toxic Substances Control (DTSC) Ascon Landfill Proposed Remediation Plan Environmental Impact Report (EIR), Huntington Beach, California, U.S.A.

Project Manager

Prepared Water Quality section of the EIR to describe existing surface and groundwater conditions and applicable regulations related to surface and groundwater quality. This EIR was prepared at the direction, and under the supervision, of the DTSC in accordance with the California Environmental Quality Act (CEQA) and the Guidelines for California Environmental Quality Act (CEQA Guidelines), as amended. The Remedial Action Plan (RAP) for the Ascon Landfill Site describes the proposed remediation plan for the Site.

FAA, Chicago, Illinois Final EIS for O'Hare Modernization Program, U.S.A.

Project Manager

Project Manager, reviewer/author/editor for the O'Hare Airport Modernization Program, from 2003 to 2006, prepared in accordance with NEPA.

Chicago Housing Authority, Chicago, Illinois Final EA for Carlton House Expansion, U.S.A.

Project Manager

Project Manager, reviewer/author/editor for the Chicago Housing Authority Carlton House Expansion, in 2008, in accordance with NEPA.

Title V Air Permitting (Partial List)

U.S. Department of Air Force Air Emissions Inventory (AEI) for Randolph Air Force Base (AFB)

Director and Technical Lead

Director and technical lead for Air Emissions Inventory (AEI) for Randolph Air Force Base (AFB), to satisfy the requirements of Title V Permit. The AEI was performed in conjunction with the annual Emissions Inventory Questionnaire (EIQ) update required by the Texas Commission on Environmental Quality (TCEQ). A report was prepared to provide a detailed description of the emission calculations for each source. Information for this inventory was gathered from data provided by Randolph AFB. Emission

sources included Abrasive Blasting, Aircraft Engine Testing, Chemical Usage, Degreasers, External Combustion, Fire Fighter Training, Fuel Cell Maintenance, Fuel Dispensing, and Fuel Transfer, Fuel Storage, Pesticide Usage, Stationery Internal Combustion, Surface Coating, Welding, Wet Cooling Towers, and Wood Working.

Dominion Energy Environmental Compliance Audit for Kincaid Power Plant, Illinois, U.S.A.

Project Manager

Managed and conducted an environmental compliance audit for Kincaid Generating Station owned by the Commonwealth of Edison. This audit was performed as part of a multi-hundred $million property transfer activity. The power plant consisted of two lines with approximately 1,200 MW total capacity. The environmental management areas covered under this audit were compliances with Title V Permit Air Quality, Drinking Water, Wastewater, Storm Water, Solid Wastes, Hazardous Wastes, Oil and Petroleum, Aboveground Tanks, Underground Tanks, SPCC Plans, Hazardous Substances, Toxic Substances, PCBs, and OSHA.

U.S. Department of Energy Dual Phase Extraction (DPE) for VOC Remediation of Soil and Groundwater at the Stanford Linear Accelerator Center (SLAC) at the Stanford University, Menlo Park, California, U.S.A.

Technical Lead

Technical lead for design and installation of the DPE systems for remediation of soil and groundwater contaminated with volatile organic compounds (VOCs) at the SLAC site. Responsibilities included a review of the detailed process design, installation oversight, testing, startup, Title V air compliance, and turnover of the treatment systems to SLAC/DOE. The project involved the installation of 26 DPE wells at the Plating Shop Area and 6 DPE wells at the Test Laboratory and Central Laboratory Area. Each DPE system consists of extraction wells, a dedicated air-driven pump, as described for the PSA DPE system, to extract groundwater, an aboveground positive-displacement blower, an air/moisture separator (knock-out drum), and an air scrubber, for treatment of the exhaust air, when needed. Upon completion of the remediation, the site will be available for future residential uses.

U.S. Army Corps of Engineers, Tulsa District Comprehensive EMS Inspections for 17 Department of Homeland Security's Custom Border Protection Facilities, Various States, U.S.A.

Senior Technical Reviewer

Senior Technical reviewer of the inspection reports for CBP's border facilities at 17 sites located in California, Florida, Michigan, Port Rico, New Mexico, and Texas. Each report consisted of the site Pre-visit Questionnaire prepared by the inspector, summaries of each facility's compliance with the Federal and State requirements, and a Site Visit Report summarizing the inspection findings with non-compliances and recommended corrective actions. The Federal and State requirements include Title V Permit compliance, Air Emission Management; Hazardous Material Management; Hazardous Waste Management; Petroleum, Oil, and Lubricant Management; Solid Waste Management; Storage Tank Management; Wastewater Management; and Water Quality Management. These reports will be used as a format for the conduct of routine Environmental Compliance Site Inspection at each facility. This Handbook will be used by CBP for compliance with the Federal and State and all applicable requirements. This project also involved the preparation of Assessor Training document, PowerPoint presentations, and participating in frequent conference calls with CDM, U.S. Army, and Department of Homeland Security staff.

Chris Craft Industrial Products, Inc. Air Emissions Assessment, Indiana, U.S.A.

Project Manager

Managed an air emissions assessment for regulatory compliances at a plastic film manufacturing facility in Gary, Indiana. Polyvinyl Alcohol is used as the raw material. The objective of this assessment was to assess regulatory requirements based on the potential air pollutants and the requirement for permitting. Activities in this assessment included a review of the potential air emission inventory, compliance assessment with respect to Title V and Operating Permits, and preparation of an Action Plan for permitting.

Leaking Underground Storage Tank/Remediation (Partial List)

U.S. Environmental Protection Agency (USEPA) Leak Detection Methods Testing Facility for UST, New Jersey, U.S.A.

Project Manager and Technical Lead

Designed the USEPA's controlled testing facility at the Edison N.J. to test the performance of leak detection methods for underground storage tanks.

US Army Corps of Engineers, Omaha UST Removal at US Army Sites in States of Illinois, Ohio, Wisconsin, Michigan and Indiana, U.S.A.

Project Manager

Directed, in a senior technical reviewer capacity, the removal of 13 USTs at 13 US Army sites in 5 States. Closure requirements applicable for each UST were followed. These USTs were scheduled to be removed to meet the December 22, 1998, Federal deadline for removal of non-compliance USTs. Following the removal of the UST(s) at each site and evaluation of the confirmatory sampling, a closure report for each site was prepared for submittal to the appropriate agencies. If feasible, an NFR Letter from the governing agency was requested for that site.

Kroger Groundwater Remediation Design and Construction, West Virginia, U.S.A.

Project Manager

Managed assessment and remediation design and construction oversight projects for a site with leaking underground systems. Remediation included site investigation, risk assessment, and recovery of free oil from the groundwater.

Post Closure or Environmental Compliance Audits (Partial List)

City of Chicago, Chicago US Steel South Works' Post Closure Underground Utility and Infrastructure Audit, U.S.A.

Project Manager

Conducted a comprehensive review of over 2,000 utility, processes, mechanical, and structural drawings to identify underground utilities and infrastructures such as tunnel and concrete foundations at the former US Steel South Works facility in South Chicago. The facility was built on a 570-acre parcel on the shore of Lake Michigan and on the bank of the Calumet River. On behalf of the US Steel Corp (USX), the City of Chicago is interested in redeveloping or selling the property for commercial/industrial and residential uses.

Dominion Energy Environmental Compliance Audit for Kincaid Power Plant, Illinois, U.S.A.

Project Manager

Managed and conducted an environmental compliance audit for Kincaid Generating Station owned by the Commonwealth of Edison. The audit was performed as part of a multi-hundred million property transfer activity. The power plant consisted of two lines with approximately 1,200 MW total capacity. The environmental management areas covered under this audit were Air Quality, Drinking Water, Wastewater, Storm Water, Solid Wastes, Hazardous Waste, Oil and Petroleum, Aboveground Tanks, Underground Tanks, SPCC Plans, Hazardous Substances, Toxic Substances, PCBs, and OSHA.

Chris Craft Industrial Products, Inc. Air Emissions Assessment, Indiana, U.S.A.

Project Manager

Managed an air emissions assessment for regulatory compliances at a plastic film manufacturing facility in Gary, Indiana. Polyvinyl Alcohol is used as the raw material. The objective of this assessment was to assess regulatory requirements based on the potential air pollutants and the requirement for permitting. Activities in this assessment included a review of the potential air emission inventory, compliance assessment with respect to Title V and Operating Permits, and preparation of an Action Plan for permitting.

Illinois Environmental Protection Agency (IEPA) Petroleum Storage and Refinery Inspection, Illinois, U.S.A.

Project Manager

Inspected four storage and refinery facilities owned by Motor Oils Refining Company Energy, Inc., on behalf of IEPA, for Environmental Assessment and engineering evaluations.

Confidential Chemical Manufacturing Company Process Evaluation during Hydrogenation of Tetrachlorobenzene, Delaware, U.S.A.

Project Manager

Managed process evaluation concerning dioxin formation during vapor-phase hydrogenation of Tetrachlorobenzene process for a chemical manufacturing facility. Based on this evaluation, the Delaware Department of Environmental Regulation granted this facility an operating permit for full-scale production of mono, di, and tri-chlorobenzene from Tetrachlorobenzene. These products are used as raw materials in pharmaceutical and agricultural industries.

BP Oil Pipeline Company Petroleum Terminal Compliance Audit, Multistate, U.S.A.

Project Manager

Performed inspection at six BP Oil and Pipeline Company's storage and pipeline facilities located in Illinois, Kentucky, Mississippi, New Jersey, Ohio, and Pennsylvania to assess environmental hazards and regulatory compliance for each facility.

U.S. Department of Energy Radioactive Material Processing Plant inspections, Ohio, U.S.A.

Project Manager

Inspected 14 facility groups at the DOE's Radioactive Material Processing Plant located in Ohio, for soil and groundwater Environmental Assessment.

SPCC-SWPPP *(Partial list)*

NASA/JPL Development of the Storm Water Pollution Preparation Plan (SWPPP), MATOC's/NASA's Santa Susana Field Laboratory (SSFL)Construction, Ventura County, California, U.S.A.

QSD/QSP and Water Pollution Control Manager

Water Pollution Control (WPC) Manager, Qualified SWPPP Developer (QSD) and QSP, as part of the NPDES General Permit requirements, for construction activities for Alfa, Bravo, Coca at SSFL. The Draft SWPPP was approved, and a General Construction Permit was issued by California Water Board. The construction is performed, and site inspections are performed to assure compliance with the permit requirements.

Defense Logistic Authority Development of the Storm Water Pollution Preparation Plan (SWPPP), MATOC's/DLA's 26-Acre Construction, Stockton, California, U.S.A.

QSD/QSP and Water Pollution Control Manager

Water Pollution Control (WPC) Manager, Qualified SWPPP Developer (QSD), and QSP, as part of the NPDES General Permit requirements, for construction activities for Sharp Depot facility. The Draft SWPPP was approved, and a General Construction Permit was issued by California Water Board. The construction is performed, and site inspections were performed to assure compliance with the permit requirements. Upon completion of construction, a Notification of Termination (NOT) was prepared and submitted to the California Water Board for approval.

Port of Long Beach, California Development of the Storm Water Pollution Preparation Plan (SWPPP), Gerald Desmond Bridge, Long Beach, California, U.S.A.

QSD/QSP and Water Pollution Control Manager

Water Pollution Control (WPC) Manager, Qualified SWPPP Developer (QSD), and QSP, as part of the NPDES General Permit requirements, for construction activities for the Gerald Desmond Bridge. The Draft SWPPP is under review, prior to being finalized. The SWPPP involved USEPA approved total maximum daily loads (TMDL) implementation plan for sediment and 303(d)-listed waterbody impaired by sediment.

Department of the Army - SPCC Plan Preparation 59 Sites, Nine States (AL, FL, GA, KY, LA, MS, NC, SC, TN

Project Manager/Technical Lead

Proposed Professional Engineer and technical lead for review and preparation of SPCC Plans and/or Facility Response Plans to comply with 40 CFR 112 "Oil Pollution Prevention; Non-Transportation Related Onshore Facilities; Spill Prevention, Control, and Countermeasure Rule" for 59 applicable facilities located throughout nine (9) army's facilities.

BP Oil Pipeline Company - SPCC Plan Preparation at Petroleum Terminals, Multistate, U.S.

Project Manager/Technical Lead

Performed inspection and prepared SPCC Plans, in accordance with the 40 CFR 112 requirements, for six BP Oil and Pipeline Company's storage and pipeline facilities located in Illinois, Kentucky, and Mississippi, New Jersey, Ohio, and Pennsylvania. The SPCC for each facility covered over 50 aboveground storage tanks ranging 1,000 to 4,000,000 gallons of different petroleum products. Another objective of inspections was to assess environmental hazards and regulatory compliance for each facility.

City of Chicago, Department of Aviation - SPCC Plans' Review, as Part of the Preparation of the SWPP Annual Training Program, for O'Hare International Airport (ORD), Chicago, Illinois

Project Manager/Technical Lead

Reviewed SPCC Plans for ORD for any deficiencies for compliance with 40 CFR Part 112, as part of preparation the SWPP for five facility groups, including terminals, Aircraft Hangers Facilities, Cargo

Facilities, Car Rental Facilities, Ground Equipment Maintenance Facilities, and Miscellaneous Airport Support Facilities. Ten (10) entities that operate at the airport had prepared SPCC Plans. SPCC Plans, as effective storm water quality control management tool, were used as effective BMPs in preventing fuel and oil from reaching surrounding waterways.

TAPCO, Inc., Neville Island, Pennsylvania - SPCC Plan Preparation for a Tallow Rendering Plant, Neville Island, Pennsylvania

Project Manager/Technical Lead

Managed preparation of the SPCC Plan, as well as NPDES application, and Preparedness Prevention Contingency Plan for storage and handling of tallow oil. The SPCC covered the spill prevention for interior and exterior facilities. This includes two (2) 200,000-gallon exterior tanks, tallow conveyance system, 2 interior storage tanks, and shipping/trucking areas.

First Juice, Inc., Randolph, New Jersey - SPCC Plan Preparation for an Orange Juice Production Facility, Randolph, New Jersey

Project Manager/Technical Lead

Managed preparation of the SPCC Plan for storage and handling of orange peel oil in a 3,000,000-gallon orange juice storage facility. The SPCC covered the spill prevention for interior and exterior facilities. This includes five 100,000-gallon exterior and thirty (30) 100,000-gallon interior aboveground stainless-steel tanks, and shipping/trucking areas.

Los Angeles Department of Water and Power - SPCC Plan Preparation for Pine Tree Wind Project, Los Angeles, California

Project Manager/Technical Lead

Managed preparation of a SPCC Plan, to satisfy federal and California requirements for petroleum and oil storage at the Pine Tree Wind Project. The SPCC Plan detailed equipment, workforce, procedures, and steps to prevent, control and provide adequate countermeasures for petroleum and oil that could be discharged to navigable waters. The Pine Tree Wind Project is located in the Southern Sierra Nevada Mountains approximately 14 miles north of city of Mojave in Kern County, California. The facility uses and stores approximately 25,825 gallons of diesel fuel, gasoline, oil and lubricants for the operation, maintenance and fueling of vehicles, heavy equipment, and construction equipment to construct roads, foundations, and towers that house wind turbine generators to provide electrical power to LADWP.

Treatability Studies (Partial list)

ARCO Chemical's Pilot Plant Design, Ohio, U.S.A

Project Manager

Managed and designed the pilot plant facility for physical, chemical, and biological treatability for process wastewater containing phenolic contaminants for an ARCO site in Barberton, OH.

Baker Wastewater Treatment Plant Biological Treatability Study, California, U.S.A.

Project Manager

Directed and conducted biological treatability, and aerobic and digestion testing for a site containing 300,000 yd^3 of hazardous sludge for Baker in California.

U.S. and Italian Clients Physical/Biological Treatability Studies, U.S.A. and Italy
Project Manager
Directed activated carbon, air stripping, biological, solidification/stabilization, and UV and ozone oxidation studies for soil and wastewater remediation projects in the United States and Italy.

Allied Signal Soil Bioremediation Treatability Studies, Ohio, U.S.A
Project Manager
Managed bench- and pilot-scale biological treatability studies for degradation of PAHs for bioremediation of 460,000 yd^3 of soil for Allied Signal NPL Site in Ohio.

Firestone Treatability Studies for Removal of Vinyl Chloride, New Jersey, U.S.A.
Project Manager
Managed bench- and pilot-scale biological treatability studies for removal of vinyl chloride from soil and groundwater at a 30-acre for municipal landfill Firestone.

General Motors Soil Flushing Treatment Studies, Delaware, U.S.A.
Project Manager
Managed soil flushing laboratory and in-field pilot treatability studies for removal of organic and inorganic contaminants from the soil at an NPL site.

Incineration

Firestone, Allied Signal, U.S. DOE, Ohio, U.S.A. Contaminated Soil Incineration, New Jersey, U.S.A.
Project Manager
Performed feasibility studies for incineration of soils contaminated with vinyl chloride, PAHs, or radioactive/mixed wastes, using rotary kiln incineration, plasma arc, or vitrification for several sites.

U.S. Army Corps of Engineers Hybrid Thermal Treatment System, New Jersey/Louisiana/California, U.S.A.
Project Manager
Reviewed numbers of incineration projects from the design, technical, and regulatory aspects for incineration of hazardous wastes, using Hybrid Thermal Treatment System (HTTS) for soil clean-up at the following U.S. Army Corps of Engineer sites: Helen Kramer, New Jersey; Bayou Banfouca, Louisiana; and Sikes, California.

Overseas Assignments
Republic of Georgia, India, Korea, Venezuela Jordan, West Bank/Gaza, United Arab Emirates, Afghanistan, Iraq, Yemen, Italy, Hungary, England, and Indonesia.

Languages
English, Farsi/Persian, Arabic

Technical Papers
"Fuels of the Future for Renewable Energy Sources (Ammonia, Biofuels, Hydrogen)," Academia, San Francisco, CA, 2020.

Book: "Underground Tank Leak Detection Methods - a State-of-the-Art Review," EPA/600/2-86/001, Noyes Data Corporation, Park Ridge, NJ, 1987.

Book Review: “Principles of Nanotechnology - Molecular-Based Study of Condensed Matter in Small Systems,” Prof. G. Ali Mansoori, World Scientific Publications, Hackensack, NJ, 2005.

“Strategic Planning and Management for Construction of Major Water/Wastewater & Conveyance Systems” American Water Resources Engineers Conference, San Francisco, Jan 16-18, 2004.

“USEPA Brownfields Pilot Demonstration Program at a Former Petroleum and Refining Research Facility,” ASCE Conference, Nashville 2003 Engineering & Exposition Conference, Nashville, TN, Nov 12-15, 2003.

“Use of the Advanced Biological Nutrient Removal Processes in Korean Municipal Wastewater Treatment Plants with Low BODs,” Purdue University Industrial Wastes Technical Conference, Hyatt Regency, St. Louis, Missouri, May 21-24, 2000.

“Pollution Prevention Measures in 10 Major Industries,” U.S. EPA Conference, Westin Hotel, Chicago, Illinois, 1997.

“Industrial Wastewater Discharge Pollution Prevention,” American Embassy, Amman, Jordan, 1995.

“Pollution Prevention Training Needs,” Earth Day Pollution Prevention Conference,” Philadelphia Hotel, Amman, Jordan, 1995.

“Activated Biofilm Removal at Low Concentration Toluene,” Water Env. Federation, Vol. 66 #7, pp 899-904, 1994.

“Soil Washing and Low Temperature Thermal Desorption for Cleanup of Superfund Site Contaminated with Pesticides,” Proceedings of Superfund XIV, Hazardous Materials Control Resources Institute, Washington D.C., November 30-Dec 2, 1993.

“Innovative Technologies for Removal of Pesticides from Soil,” Proceedings of Enviro-Pro Expo, Mexico City, Mexico, Jul 13-15, 1993.

“Soil Washing Pilot Test for Removal of Pesticides from Soil,” Proceedings of HazMat West Spring 1993 Conference, Long Beach, California, May 4-6, 1993.

"Risks due to Exposure to Lead and PAHs at the Lincoln Park Gun Club," SETAC Conference, Chicago, Illinois, 1993.

"Enhanced Bioremediation of Hydrocarbons in Soils by Surfactant," IT Technical Symposium, Phoenix, AZ, 1992.

"Activated Biofilm for Removal of Trace Organics from Wastewaters Under Starvation Conditions," Ph.D. Thesis, University of Pittsburgh, Pittsburgh, PA, 1991.

"Gratuitous Metabolism for Removal of Trace Organics from Wastewaters Under Starvation Conditions," WPCF Conference, Toronto, Canada, October 7-10, 1991.

"In-Situ Soil Air Purging for Soil Cleanup," Haztech International 90 Conference, Pittsburgh, PA. Sponsored by the Institute for International Research, New York, NY, October 2-4, 1990.

"Steam Regeneration of Carbon for Removal of Toxic Organic from Groundwater," Haztech International 90 Conference, Pittsburgh, PA. Sponsored by the Institute for International Research, New York, NY, October 2-4, 1990.

"Selection of Air Flow Rates and Cultures in Aerobic Biotowers for Removal of Hydrocarbons from Wastewaters," Proceedings of 22nd Mid-Atlantic Industrial Waste Conference, Drexel University, Philadelphia, PA, 1990.

"Destruction of Chlorinated Hydrocarbons in Wastewater by Ozone and Ozone/UV Photolysis," Proceedings of Haztech International 90 Conference, Houston, TX. Sponsored by the Institute for International Research, New York, NY, May 8-10, 1990.

"Long-Term Ground Water Cleanup Strategy," Proceedings of Hazmacon 90, Anaheim, CA. Sponsored by Association of Bay Area Governments, Oakland, CA, April 17-19, 1990.

"Design for Enhanced In-Situ Bioremediation," M.S. Thesis, Civil Engineering, University of Pittsburgh, Pgh, PA, 1988.

"Treatment Technologies for PCB-Contaminated Soils," Proceedings of the Haztech International Conference, St. Louis, MO, Aug 26-28, 1987.

"Underground Tank Leak Detection Methods - a State-of-the-Art Review," EPA/600/2-86/001, Noyes Data Corporation, Park Ridge, NJ, 1987.

"Remedial Measure Initiation Decision Report," Naval Civil Engineering Laboratory, Port Hueneme, CA, 1987.

"An Approach to Evaluate Leak Detection Methods in Underground Storage Tanks," Proceedings of the 1986 Specialty Conference, Cincinnati, OH, Jul 8-10, 1986.

"Underground Fuel/Chemical Storage Tank Leak Detection," Proceedings of the 1985 Oil Spill Conference, Los Angeles, CA, Feb 1985.

"Vinyl Chloride Process Design and Economic Evaluation," M.S. Thesis, Chemical Engineering, University of Pittsburgh, Pittsburgh, PA, 1980.

"Liquid Extraction of Copper," B.S. Thesis, Chemical Engineering, Industrial University, Tehran, Iran, 1975.

State of Illinois

Department of Financial and Professional Regulation

Division of Professional Regulation

LICENSE NO.
062.047816

The person, firm, or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below:

EXPIRES:
11/30/2023

LICENSED PROFESSIONAL ENGINEER

SHAHZAD NIAKI PHD
1350 E CHAPMAN AVE UNIT 6801
FULLERTON, CA 92834

MARIO TRETO, JR.
ACTING SECRETARY

CECILIA ABUNDIS
ACTING DIRECTOR

The official status of this license can be verified at www.idfpr.com

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For future reference, IDFPR is now providing each person/business a unique identification number, 'Access ID', which may be used in lieu of a social security number, date of birth or FEIN number when contacting the IDFPR. Your Access ID is: 946080

LICENSE NO.
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Department of Financial and Professional Regulation
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CERTIFICATE OF TRAINING

CALIFORNIA CONSTRUCTION GENERAL PERMIT

QUALIFIED SWPPP DEVELOPER (QSD)
AND
QUALIFIED SWPPP PRACTITIONER (QSP)

Shawn Niaki

Feb 11, 2022 - Mar 07, 2024

Certificate # 22564

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION®

California Stormwater Quality Association and
California Construction General Permit Training Team

Micaela Presutti

Micaela A. Presutti, Environmental Technician

Ms. Presutti is a recent *magna cum laude* graduate of Northern Illinois University, where she earned her Bachelor of Science in Geology. Her diverse academic experience includes coursework focused on water quality, hydrogeology, structure and dynamics, sedimentology, stratigraphy, geomorphology, geomicrobiology, and mineralogy. She is experienced in conducting fieldwork, having been involved with academic geological fieldwork in Wyoming and South Dakota. Her studies have also taken her abroad to the Peruvian Andes, which has enriched her both culturally and academically. Ms. Presutti also has experience utilizing various computer programs relevant to environmental applications, including ArcGIS Pro, Google Earth, and Adobe Illustrator. As an Environmental Technician, Ms. Presutti is primarily responsible for the performance and oversight of fieldwork in an efficient and effective manner. She also works closely with Project Managers in implementing project tasks to meet client objectives and priorities.

Education

Bachelor of Science, Geology - 2021
Northern Illinois University
DeKalb, IL

Associate of Science - 2019
McHenry County College
Crystal Lake, IL

Experience

More than 1 year of Professional Environmental Services
6 Years of Customer Service and Satisfaction

Certifications

OSHA 40-Hour HAZWOPER Certificate
OSHA 30-Hour Construction Safety Certificate

Relevant Experience

Environmental Compliance and Due Diligence

ComEd, Fiber Ready Spoils Management - Northern Illinois
Environmental Technician
Ms. Presutti is actively involved in fieldwork for this project, which has 32 sites across Northern Illinois. Her responsibilities include:

- Oversight of proper wet and dry spoil excavation in construction work zones
- Collecting soil samples using a hand auger and properly filling out all required paperwork and labels
- Assisting in public and private underground utility locating procedures

ComEd, Polypipe Installation - Round Lake, Illinois
Environmental Technician
Collected numerous soil samples following the standard operating procedure (SOP) and staked locations for further sampling.

ComEd, 333 S. LaSalle, Due Diligence Environmental Studies, Phase I and II - Chicago, Illinois

Environmental Technician

Ms. Presutti was responsible for revising and polishing a phase I environmental site assessment (ESA) for the Project Supervisor.

Cook County Health (CCH), Oak Forest Health Campus - Oak Forest, IL

Environmental Technician

Assisted the Project Manager with creating a Sampling and Analysis Plan (SAP) for a phase II environmental site assessment of the Subject Property. She was present on-site for drilling and well development activities and was responsible for properly collecting soil and water samples for laboratory analysis.

Chicago Housing Authority (CHA), Phase I Environmental Site Assessments (ESAs) – Chicago, IL

Environmental Technician

Ms. Presutti was responsible for writing five Phase I ESAs for the Chicago Housing Authority. She worked diligently and responsibly to complete each report with the utmost accuracy.

Caleb Ratz

Caleb Ratz, Sr. Environmental Scientist/Project Manager

Mr. Ratz graduated from Southern Illinois University Carbondale with a Bachelor of Science in geology and is a Project Manager with over 7 years of domestic experience within the Environmental Consulting Industry. Prior to joining SPC, Caleb worked at Arcadis U.S., Inc. and for 1 year with Golars Environmental. Caleb's areas of expertise include environmental and geotechnical investigations as well as wastewater treatment plant operations & maintenance. His environmental experience includes quarterly monitoring reports, initial site characterization, Corrective Action Plans, comprehensive site investigations, site closure reports, work plans, and remediation cost estimates. As a geologist, Mr. Ratz has recently served as a lead system operator and scientist for large oil companies and has worked high-profile jobs throughout the country delivering results often lauded by the clients.

Education
Bachelor of Science, Geology -
2015 Southern Illinois University - Carbondale

Licenses, Registrations & Certifications
OSHA 40-Hour HAZWOPER Certificate
OSHA 30-Hour Construction Safety Certificate
Smith Driving System

Experience
Total of 7 years

Expertise and Specialized Training
Wastewater Treatment
Soil & Groundwater Remediation
Digital Transformations
Wastewater System Operations
Behavior-Based Safety Management

Relevant Experience

Confidential Oil Company, Buffalo Release Investigation- Buffalo, NY (12/2020 – 4/2021)
Geologist
Caleb executed three successful mobilizations to take soil & surface sediment samples from 30+ drilling locations while successfully managing the safety hazards of drilling from a barge on the Buffalo River during winter. Caleb worked with a dive team, his project team, the EPA, & US Coast Guard while delivering the project ahead of schedule & under budget. Responsibilities included using GPS and communicating the locations of the borings to the captain of the barge to navigate to the next drilling location, logging the soil, taking geotechnical & analytical samples, planning work around the extreme weather, managing a crew of two drillers & two boat hands, stopping work due to the freezing of the river, & rescuing the barge after the river froze.

Confidential Oil Company, Legacy Wastewater Treatment Plant- East Chicago, IN (2017-2022)

Geologist/Assistant to the Lead operator

In his daily role, Caleb started out as a technician on a client's legacy site wastewater treatment plant and towards the end of his tenure, was running the day-to-day operations with remote assistance, as needed. The operations of the plant consisted of many different facets including tasks on a daily, weekly, and yearly basis depending on maintenance needed. Mr. Ratz also took NPDES samples for the plant for over 5 years with zero violations. Alongside the routine tasks, there was a large variety of other geology tasks varying from groundwater/soil sampling, surface sediment sampling, pump tests, slug tests, barge drilling, supervising the night shift for emergency response, NSZD sampling, removal of sludge from a 1,000,000-gallon tank and covering for other operations across the country.

Confidential Oil Company, Legacy Wastewater Treatment Plant- East Chicago, IN (2020-2022)

Geologist

Mr. Ratz led an effort to digitize various types of environmental data that was being collected at his work site including ground water samples, surface water samples, soil samples, and operations & maintenance notes. This led to a massive increase in the usability of the data that was being collected from an operations and maintenance standpoint- before the data was being collected and nothing was done with it, but now you could create a dashboard with the data and interpret trends as needed. The operations data went from being collected with a paper and pencil to being collected digitally with interpretations and forecasts during his tenure with Arcadis.

Confidential Oil Company, Night Shift Emergency Response Manager- Houston, TX (01/2019 – 03/2019)

Geologist

Managed the duties of the response workers during the night of an emergency response. Work included health and safety meetings at the beginning and end of each shift, ensuring the work was completed on time and safely, air monitoring, soil samples, and cooperation with other consultants to complete each team's responsibilities.

Golars, Gas Station Remediation- Indiana (2016)

Geologist

In his first role out of college, Caleb learned the basics of groundwater & soil sampling at various gas stations across the state of Indiana. His role included low flow sampling, soil samples via a direct push drill rig, and light operations & maintenance. He eventually transitioned from the field to learn how to write reports for the EPA & IDEM for the tasks that Golars performed.

Southern Illinois University, Research Assistant- Carbondale, IL (2013 - 2015)

Research Assistant

Caleb used ArcGIS and Hazus-MH in the development of Multi-Hazard Mitigation Plans for fifteen counties in Illinois in accordance with FEMA & IEMA standards. He also used the same programs to simulate, analyze, and map areas of interest regarding flood and earthquake catastrophes for use in Hazard Mitigation Planning. Another aspect of the job was to compute analytical projects in and out of ArcGIS using both attribute data & spatial location data.

Keegan Ruscheinski

Keegan Ruscheinski, Environmental Scientist

Mr. Ruscheinski is an environmental scientist with 3 years of experience in environmental data analysis, geographic information systems, and environmental management for construction projects. He has worked primarily on projects for utility construction. Mr. Ruscheinski has experience in field sampling and monitoring. Mr. Ruscheinski has experience with environmental report writing as well as multiple project phases, including proposal, data analysis, exhibit creation, and final report preparation. Mr. Ruscheinski has also been responsible for managing and reporting the waste metrics for these projects. Additionally, he has written Phase I & Phase II Environmental Site Assessments for various clients pertaining to numerous property uses.

Education
Bachelor of Arts – May 2019
Environmental Studies and Geography
Villanova University,
Villanova, PA

Experience
3 Years

Expertise and Specialized Training
Environmental Data Analysis
ESRI ArcGIS Suite, Trimble GPS Handheld, GPS Trimble Pathfinder, Google Earth Pro
Photo-ionization detector experience
Field and research experience with GIS and GPS
Research and Scientific Report writing

Licenses, Registrations & Certifications
OSHA 40 Hour Hazardous Waste Suite
OSHA 30 Hour Construction Outreach Training
FEMA ICS Certified

Relevant Experience

Commonwealth Edison Utility Improvements – Various Locations, IL (2020 – Present)
Environmental Scientist/Data Manager
Conducted soil sampling at various locations for contaminants of concern associated with ComEd utility infrastructure improvements. Used a photo-ionization detector (PID) to detect VOCs in each soil sample. Oversaw construction activities for environmental hazards and coordinated disposal of non-hazardous and hazardous soils. Conducted manifesting of spoils for haul-off. Responsibilities included preparation of field documentation including, waste manifests, Field Inspector Daily Reports, and Job Safety Briefs.

Commonwealth Edison Cleanup and Restoration – Aurora, IL (December 2022 – January 2023)
Environmental Scientist
Conducted cleanup and restoration of the existing right-of-way (ROW) at 250 E. Sullivan Road, Aurora, Illinois. Responsibilities included waste profiling, site survey and layout; coordinate and manage the project activities performed during execution of the scope of work; erosion control management, Field Inspector Daily Reports, and Job Safety Briefs. Other responsibilities covered oversight responsibilities

covered oversight of exported material and working with contractors to schedule and organize material removal.

Commonwealth Edison Cleanup and Restoration – Streator, IL (October 2022 – April 2023)
Environmental Scientist
Managed the removal of a decommissioned electrical substation in Streator, IL. The project required significant coordination between state environmental and government organizations and permit retrieval. Responsibilities included subcontractor management, waste profiling, site survey and layout; erosion control management, Field Inspector Daily Reports, and Job Safety Briefs.

Chicago Housing Authority Supplemental Site Investigations – Chicago, IL (March 2023 – Present)
Environmental Scientist
Conducted supplemental site investigations of two CHA properties in order to investigate previous findings of environmental concern at the properties. Organized boring and monitoring well locations, participated in field and groundwater sampling, and assisted in reporting.

Commonwealth Edison Data Deliverable Reporting – Various Locations, IL (2020 – Present)
Environmental Scientist/Data Manager
Created data deliverable packages, including data analytical tables and exhibits. Used the ESRI ArcGIS application to map and display soil sampling analytical information. Created exhibits for Phase I, Phase II, SRP, and SSI projects.

Waste Metric Management and Tracking – Various Locations, IL (2020 – Present)
Environmental Scientist
Managed the tracking and reporting of non-hazardous and hazardous waste for a wide variety of construction activities. Compiled waste data from a variety of landfills and disposal locations. Profiled waste to various disposal facilities for a wide variety of project types. Experience in profiling non-hazardous waste as well as TSCA and RCRA designated waste. Responsible for a monthly deliverable of waste metric data.

Forest Preserve Phase I Environmental Site Assessments – Various Locations, IL (September 2022-Present)
Environmental Scientist
Completed Phase I Environmental Site Assessments for various Forest Preserve properties. The assessment included thoroughly investigating the Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. A detailed report was completed, including the findings and recommendations as related to the Subject Property.

Chicago Housing Authority Phase I Environmental Site Assessments Chicago, IL (2021 – Present)

Environmental Scientist

Completed Phase I Environmental Site Assessments for various Chicago Housing Authority properties. The assessment included thoroughly investigating the Subject Property's historical, environmental, and legal background information relating to past and present uses. The investigations included a thorough review of state, federal, and local regulatory databases, historical records, and agency records, as well as site visits to document and report the current conditions and uses of the Subject Property and the adjacent properties. Created figures to include in the Phase I report. A detailed report was completed, including the findings and recommendations as related to the Subject Property.

Underground Storage Tank Removal – Harvard, IL (2021)

Environmental Scientist

Executed confirmation soil sampling and field screening for volatile organic vapors at a tank pull. Coordinated with OSFM while conducting the tank pull. Completed tank removal oversight and insured preventative measures were in place. Verified there were no signs of a possible release to the environment.

Lawndale Christian Development Corp. Phase I and Phase II Environmental Site Assessments - Chicago, IL (2021 - 2022)

Environmental Scientist

Completed Phase I & Phase II Environmental Site Assessments for various Lawndale Christian Development Corporation properties. The assessments included historical review as well as on-site sampling of soil and groundwater. Created data tables and figures to display the results of the assessment.

R.W. Collins Waste Characterization Sampling - Chicago, IL (2021)

Environmental Scientist

Coordinated waste characterization sampling of various properties for future construction spoils disposal. Determined the best location to take the sample as well as wrote reports detailing the results and classifications of the sampling.

Chicago Public Schools Phase I Environmental Site Assessments – Chicago, IL (2020 – present)

Environmental Scientist

Conducted a Phase I Environmental Site Assessment for multiple properties for Chicago Public Schools. Reviewed historical data pertaining to federal and state databases as well as FOIA documentation. Created exhibits detailing the sites and surrounding properties of note.

Villanova University Geographic Information Systems – Villanova, PA (2019)

Teaching Assistant

Used knowledge of ESRI ArcMap and ArcGIS Pro to help teach students about the program and learn to produce quality maps. Taught mapmaking, data collection and extraction, vector and raster data management, and other crucial GIS skills.

Arturo Saenz

Arturo Saenz, President, Chief Executive Officer

Mr. Saenz has 34 years of experience in engineering, construction, and environmental remediation. He has functioned as Principal in charge and Program Manager/Contract Administrator for large multi-site projects, managing more than 50 projects concurrently. His experience also includes managing and coordinating work activities with multi-disciplinary teams for several large-scale infrastructure projects. He supervises and coordinates work activities of multi-disciplinary teams from project planning, design development and construction management projects. He is responsible for setting work units and/or project deadlines, leads and directs the work of various departments, evaluates, selects, and recommends engineering techniques, procedures, and criteria to complete project cost effectively. He supervises the performance of all necessary tasks to develop and deliver projects, negotiate contacts, allocate resources, solves problems, and perform final QA/QC review of all project deliverables. He has worked on corporate, federal, state, and local government projects including those of the Federal Aviation Administration, Illinois Capital Development Board, Chicago Housing Authority, and Chicago Public Schools System.

Education
Bachelor of Science,
Electrical Engineering - 1988
Northern Illinois University
DeKalb, IL

Experience
Total 34
With this firm since 2002

Expertise and Specialized Training
Program Management
Capitol Development Programs

Licenses, Registrations & Certifications
Licensed AHERA Inspector, MI, 2005
Licensed Asbestos Inspector and Management Planner, IL, 2007
Licensed Asbestos Inspector and Management Planner, IN
OSHA 40-hr HAZWOPER Certification
OSHA 8-hr HAZWOPER Refresher
Licensed Asbestos Project Manager, IL, 2007
Licensed Air Sampling Professional, IL, 2007
Licensed Hazardous Waste Supervisor, IL, 2000
Licensed Lead Risk Assessor, IL, 2007

Relevant Experience

Environmental Engineering Experience

Chicago Housing Authority, System-Wide Environmental Consultant - Chicago, IL
Program Manager
Functioned as Program Manager for SPC's environmental consultant services for the Chicago Housing Authority. Mr. Saenz has been responsible for the successful implementation of environmental services at over 80 CHA properties and developments. As part of its Plan for Transformation, the largest and most ambitious redevelopment effort of a public housing agency in the history of the United States, the CHA will redevelop or rehabilitate its entire stock of public housing. SPC was retained to provide environmental consulting services on as needed basis for system-wide capital construction projects related to this Plan. SPC has performed a variety of environmental consulting services including Emergency Response, NEPA Environmental Assessment, Phase I & II Environmental Site Assessment, Regulatory Compliance

Permitting, Including FESOP Air Quality Permits, Aboveground/ Underground Storage Tanks Services, IEPA Site Remediation Program Reporting, Environmental Remediation Oversight and Field Inspection, Asbestos and Lead-Based Paint Assessment and Abatement Oversight, Indoor Air Quality and Mold Assessment and Abatement Oversight, and Preparation of Remediation Design and Specifications. Mr. Saenz has had a crucial role in the successful delivery of these services for the past several years. The CHA repeatedly turns to SPC to fulfill its environmental engineering needs and trusts SPC not only to assist with its facilities but also to ensure a safe workplace for its staff and a healthy environment for its tenants.

ComEd, Master Environmental Services Contract, IL

Principal-in-charge

Contract is to provide environmental services for projects throughout the entire ComEd service territory. The five-year, $20+ million contract includes general compliance, site investigation and remediation, waste management, and environmental permitting services. Projects include This may include, but not limited to substation construction/demolition, linear corridor modifications, new facility constructions, demolition, storage tank upgrades or abandonment, acquisitions and divestitures, and environmental remediation. Responsible for managing a current team of 25+ professional staff executing 350+ projects annually.

NEPA Environmental Assessments - Various Locations, Illinois

Principal-in-charge

Coordinated completion of several NEPA EAs in accordance with 24 CFR Part 58, U.S. Department of Housing and Urban Development (HUD) Form 4128 and the HUD Handbook 1390.2. This included evaluating relevant environmental factors, such as historic preservation, floodplain management, coastal zones and barriers, noise abatement, hazardous industrial operations, airport hazards, protection of wetlands, toxic chemicals and radioactive materials, endangered species, sole source aquifers, farmlands protection, flood insurance, environmental justice, unique natural features and areas, site suitability, access, and compatibility with surrounding development, soil stability, erosion, and drainage, nuisances and hazards, water supply, sanitary sewers, and solid waste disposal, schools, parks, recreation, and social services, emergency health care, fire, and police services, commercial/retail service, and transportation. The environmental analysis determined a Finding of No Significant Impact (FONSI) and EA report was prepared and submitted to HUD for approval.

Amtrak, Union Station Rail Yard - Chicago, IL

Principal-in-charge

Project scope of work included providing environmental, safety, and material testing services being performed for the $100 million Design Build project at Amtrak's Union Station. As part of his responsibilities, Mr. Saenz provided direction and oversight of subsurface investigations prior to construction to characterize shallow soil conditions throughout the limits of the approximate 265-acres to identify potential future contaminant exposures to construction workers. He led similar investigations to assess construction worker exposures to the presence of diesel product encountered in portions of the work area and developed a plan to allow excavation work to safely proceed while mitigating potential explosion and chemical exposures within the diesel field contaminated areas.

Chicago Public Schools (CPS) System, - Chicago, IL

Program Administrator

Functioned as Program Administrator for about 250 schools of regions 1 and 2 of the Chicago Public Schools (CPS) System for which SPC is the Managing Environmental Consultant. Played a key role in developing proposals, requests for proposals, and presentations for Chicago Public Schools System,

Chicago Housing Authority, Illinois Capital Development Board, and many private clients. As a licensed Management Planner, Inspector and Lead-Based Paint Risk Assessor, developed standard specifications, procedures and protocols/guidelines for the following environmental activities/hazards: Asbestos and lead-based paint project design; UST/AST; indoor air quality; perimeter air monitoring; PCBs; chimney stack remediation; full asbestos inspections; three-year asbestos reinspection's; lead-based paint inspections; and pigeon/animal excrement. Also, prepared Change Order Procedures and variances from asbestos abatement alt and Rules and Regulations.

Site Remediation Program and Oversight/ NFR Letter at Teaching Academy Site - Chicago, IL

Program Manager

Managed a Site Remediation Program and oversight at the Future Teaching Academy/Cermak School site, located near Chinatown in Chicago. Remedial action oversight involved removal and disposal of up to 150 trucks per day contaminated soil for over 3 months. No Further Remediation Letters were received from the Illinois Environmental Protection Agency. The comprehensive NFR Letters were obtained approximately 7 months after SRP enrollments. This project was selected by IEPA for inclusion, as a model site remediation project, in the IEPA Site Remediation Program 2001 Annual Report.

Cook County Health – Oak Forest Health Center – Oak Forest, IL

Program Manager

Scope of work for this project included working in concert with Cook County Health leadership, to manage a comprehensive hazardous materials and environmental assessments for the entire Oak Forest Health Center Campus which comprises of 50+ facility buildings. The study is being performed to assess compliance with environmental regulations including but not limited to EPA, OSHA, and IDPH and to develop planning reports for each facility including costs to address required response actions prior to and during demolition activities. The scope of work included hazardous materials building survey, Phase I and II Environmental Site Assessment, development of the survey reports, and preparation remediation cost estimates.

Public Building Commission of Chicago (PBC), Environmental Consultants - Chicago, IL

Principal-in-charge

The scope of work for this contract is to manage asbestos, lead-based paint, indoor air quality, mold, mercury, pigeon excrement in numerous buildings for the Public Building Commissions of Chicago. Mr. Saenz participates in assessment of the existing conditions, development of the remedial design documents, and supervision of the implementations of corrective measures to abate or mitigate the existing environmental concerns by providing effective, economical, and compliant solutions. Mr. Saenz also directs the development of technical specifications for the remediation of hazardous materials.

Capital Development Board, Statewide Asbestos Survey and Asbestos Management Services – Various Locations, IL

Program Manager

Functioned as Program Manager for SPC's Statewide Asbestos Survey and Asbestos Management Services. Responsibilities included ensuring the continued success of SPC's environmental consulting services for the CDB by ensuring seamless team management and development, program delivery, and quality control and evaluation. Additionally, oversaw SPC's Statewide Asbestos Surveys, which were performed on over 250 buildings ranging in size from 200 to 2,000 square feet at the facilities including the University of Illinois, Illinois State University, Department of Natural Resources, Historic Preservation Society, Central Management Services, Illinois Department of Transportation, State Park facilities, and National Guard Armories. The objective of the Asbestos Surveys was to prepare an Inspection, Sampling

and Management Plan report for each building for use by the State of Illinois Attorney General's Office, Capital Development Board, using agencies and individual facilities. Reports were prepared using Capital Development Board protocols (like AHERA). The Asbestos Surveys, management plans, standard cost estimates and final reports were completed in a timely manner, within the projected project budget and to the satisfaction of the appropriate Capital Development Board Project Managers.

Amtrak Union Station, - Chicago, IL

Program Administrator

Mr. Saenz served as the program administrator for environmental, safety, and material testing services being performed for the $100 million Design Build project at Amtrak's Union Station. His responsibilities include coordination of company resources and personnel for the project as well as evaluating the performance of individual staff members.

Chicago Transit Authority (CTA), Red Line North Stations, Hazardous Building Materials Assessment and Remediation Design - Chicago, IL

Program Manager

Mr. Saenz oversaw the environmental assessment and design teams during Chicago Transit Authority's $57.4 million project that included renovations of nine Red Line stations. The scope of work included adhering to all applicable codes, regulations, health and safety requirements; obtaining all permits; performing testing for hazardous building materials; developing abatement specifications and drawings; training and licensing of all personnel; protection of personnel, public, and adjacent surfaces; proper and legal disposal of all contaminated materials; and maintaining all documentation during renovation activities. Mr. Saenz participated in design review meetings, provided technical assistance to Chicago Transit Authority design team, and reviewed contractor's submittals to ensure compliance with project specifications and applicable hazardous material regulations.

Architectural Engineering Experience

State of Illinois Capital Development Board Architectural/Engineering Various Projects, Throughout Illinois

Principal-in-charge

Mr. Saenz was responsible for or planning, coordinating, and overseeing all five projects through all phases of development, giving direction to assigned staff. Mr. Saenz led all communication with the client and established and maintained budgets, schedules, while monitoring adherence of terms of contract expectations. Basic services for each project included Program Analysis; Schematic Design; Design Development; Bidding Documents; Review Process; Bidding Phase and Construction Administration. The five projects are listed below:

Restore Exterior Harold Washington Community College, Chicago, Cook County - Chicago, IL

Harold Washington College is a high-rise classroom and office building located on the northwest corner of Lake and Wabash streets. The building was constructed in 1983. The scope of work provides for a critical façade condition assessment with recommendation, estimate and design of needed repairs, including exposed concrete, sealants, architectural coating, window sealants/caulking, cooling tower support framing, and options to modernize the building exterior.

Willard Ice Building - Chicago, IL
The Willard Ice Building (I0100) is a 913,236-square-foot, 7-story building established in 1982. The scope of work provides for review of the Building Enclosure Report dated November 20, 2018, which includes recommended actions to remediate water infiltration at the existing curtainwall/skylight systems and creation of a full set of bidding/construction documents required to execute the necessary repairs. The work also includes repair of water-damaged materials to restore finishes to their original condition.

Waubonsee Community College Replace Exterior Window Systems - Aurora, IL
The Waubonsee Community College - Aurora Fox Valley, is a one-building facility established in 1997. The Aurora Fox Valley Campus Building (WCC099-0001) is a 31,825-square-foot, one-story building established in 1997. The scope of work provides for replacement of all exterior window systems, as well as exterior painting as necessary.

Prairie State College, Replace Roofing System – Chicago Heights, IL
The Prairie State College - Chicago Heights, is a 10-building facility established in 1969. The scope of work included replacing roofing systems on approximately 5 buildings totaling approximately 85,000 square feet and all attendant accessories. Field investigations included roof cuts to evaluate the condition of existing insulating concrete topping and substrate and determine moisture content. An elevation survey was conducted to verify existing roof slopes at drains.

Replace Windows, Doors, and Roofing System- Transportation Garage Watseka, Illinois
The Watseka Garage (J0900) is a 10,080-square-foot, one-story building established in 1957. The scope of work provides for removing and replacing existing windows, selectively removing, and replacing concrete block walls, tuckpointing and painting concrete block walls, replacing doors, windows, and lintels, and removing and replacing the existing roof. The work also includes inspecting and potentially replacing sanitary lines and floor drains and replacing four gas-fired unit heaters. The work also includes removing and replacing gas-fired unit heaters, selectively removing, and replacing concrete floors and floor drains.

University of Illinois at Chicago, School of Public Health, and Psychiatric Institute - Chicago, IL
Principal-in-charge
Mr. Saenz served as principal-in-charge for UIC Building 975 which consists of a twelve-story building located on the west side of the UIC campus. It was built in 1957 and has approximately 324,000 square feet of space. This conceptualization phase assessment includes the results of SPC's field investigations, sample tests, code analyses, review of previous assessments, documentation of existing conditions through representative photographs, repair recommendations, and associated cost estimates.

Exterior Facade Assessment Services for Cook County Health Administration Building, Chicago Illinois.
Principal-in-charge
Mr. Saenz served as the principal-in-charge for a close-up visual examination of the exterior facade and fire escapes as part of the required ongoing inspections that are necessary at two-year intervals per the City of Chicago. The assessment of this project was based upon the level of documentation and reporting in accordance with the City of Chicago's Exterior Wall Ordinance and The City of Chicago Rules for the Maintenance of High-Rise Exterior Walls and Enclosures (Façade Ordinance).

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ID NUMBER	ISSUED	EXPIRES
100 - 04019	4/19/2023	05/15/2024

ARTURO SAENZ
2942 W VAN BUREN ST
CHICAGO, IL 60612
Environmental Health

ARTURO SAENZ
2942 W VAN BUREN ST
CHICAGO, IL 60612

4/19/2023

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 04019

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 04019	**4/19/2023**	05/15/2024

ARTURO SAENZ
2942 W VAN BUREN ST
CHICAGO, IL 60612
Environmental Health

Back of License

ENDORSEMENTS	TC EXPIRES
INSPECTOR	2/23/2024
MANAGEMENT PLANNER	2/23/2024
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov

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Chrystine Shelton

Chrystine N. Shelton, Senior Project Manager

Ms. Shelton is an environmental professional with 16 years of experience in environmental consulting, site assessments, remediation, brownfield redevelopment, wetland delineations, air emissions monitoring, and installation of solid waste facility improvements. Ms. Shelton has completed numerous projects including multi-phase environmental site assessments, soil, surface water, and groundwater investigations, risk-based corrective actions, remediation planning, and implementation, leaking underground storage tank closures, permitting and regulatory compliance, Method 9 visible emissions testing, and solid waste construction quality assurance.

Ms. Shelton has performed over 500 Phase I Environmental Site Assessments (ESAs) for municipal, residential, commercial, and industrial clients within seventeen states. She has coordinated and completed various Phase II ESA sampling events, including observation of soil probe and monitoring well installation activities, interpretation of subsurface soils, groundwater and surface water, screening for volatile organic contents, sample collection, result interpretation and reporting.

Ms. Shelton has conducted Illinois Environmental Protection Agency (IEPA) Site Remediation Program (SRP) activities to obtain No Further Remediation (NFR) Letters for former Brownfields properties in support of redevelopment. She has also completed SRP activities for large-scale railroad facilities in Illinois, Iowa, and Missouri, and obtained NFR Letters or other applicable State-specific site closures. Ms. Shelton has conducted United States Environmental Protection Agency (USEPA) Brownfields Assessment Grants and Revolving Loan Funds activities for the South Suburban Mayors and Managers Association, the Village of Midlothian, and two Cook County Coalitions.

Ms. Shelton has also performed wetland assessment activities at hundreds of locations by conducting records reviews to identify wetland areas, as well as completed hydrophytic plant, wetland hydrology, and hydric soils identification to delineate wetland boundaries in the field. Utilizing these results, Ms. Shelton obtained permits in counties throughout Illinois for development activities associated with both commercial and private utility construction and installation activities. She also conducted oversight of construction activities to assess that permitted activities remained in compliance.

Education

Bachelor of Science, Environmental Studies
2005: Michigan State University
East Lansing, Michigan

Bachelor of Arts, East Asian Language, and Culture (Japanese); Environmental Science
2005: Michigan State University
East Lansing, Michigan

Experience

16 Years

Expertise and Specialized Training

Environmental Assessment and Remediation
Environmental Compliance and Permitting
Environmental Due Diligence
Wetland Delineations and Permitting
Air Emissions Monitoring

Licenses, Registrations & Certifications

OSHA 40-Hour HAZWOPER Certificate; OSHA 8-Hour HAZWOPER Refresher; CPR/First Aid Training; eRail Safety Training; Visible Emissions Certification; Army Corps of Engineers Wetland Delineation Training

Relevant Experience

Class I North American Railroad Properties – IL, IA, WI, MO

Project Manager/Technical Lead

Led the completion of environmental services for a Class I North American confidential railroad company at multiple properties located in Illinois, Iowa, and Missouri. Tasks included conducting Phase I and Phase II ESA services for several railroad corridors and associated intermodal rail yards ranging from one mile to eight miles in length, each with some combination of historical fuel storage, fly dumping, and yard activities including roundhouses, turntables, oil houses, suspect fill materials and underground storage tanks (USTs). In conjunction with this effort, we were tasked with making general and specific observations with regard to ongoing compliance issues to assist the client in their understanding of the past, present, and potential future environmental concerns and liabilities for each property. The properties were subsequently enrolled in their state's applicable voluntary cleanup programs in an effort to obtain NFR Letters/Certificates of Completion or equivalent. The closure activities included a combination of risk-based strategies such as hot spot soil remediation, averaging of applicable contaminations of concern comparing the average to site-specific Tier 3 Soil Remediation Objectives, groundwater modeling, preparation of construction worker safety precautions, utilizing engineered barriers, and establishing institutional controls. Obtained full or partial regulatory closure status on fifteen rail yard properties, or portions thereof, enrolled in their respective voluntary cleanup programs.

Industrial Redevelopment Property in Franklin Park, Illinois

Project Manager/Technical Lead

Led a Phase I ESA and subsurface soil and groundwater investigation on a 30-acre industrial property in Franklin Park, Illinois. The property included a one and two-story approximately 500,000-square-foot industrial warehouses and distribution building for the processing and distribution of metal alloys. The building underwent asbestos inspection and abatement, lead inspection, hazardous material removal, concrete floor slab cleaning for reuse, and demolition. The investigation revealed the presence of three 15,000-gallon USTs, as well as subsurface impacts in two areas related to historical onsite industrial operations. Managed soil remediation activities, and provided consulting and soil testing services during the removal of the USTs. A former petroleum pipeline was also discovered during construction activities which required an urgent response including soil testing, subcontractor coordination, and remediation. Using a combination of targeted hot spot removal and site-specific contaminant averaging, concentrations of subsurface impacts were below Tier 1 remediation objectives for industrial/commercial properties. A Comprehensive NFR Letter inclusive of the USTs and their associated leaking underground storage tank incident was recorded for the entirety of the site in April 2017.

Commercial Redevelopment Property in Hoffman Estates, Illinois

Project Manager/Technical Lead

Led the completion of Phase I ESA and Phase II ESA services, as well as surface water sampling activities, at a 46.5-acre redevelopment site in Hoffman Estates, Illinois. The property was historically agricultural land and a former quarry which was required to be filled to grade in order to support redevelopment plans. Prior to imported soil placement, hot spot remediation was conducted to remove elevated concentrations of arsenic above a calculated site average. Supervised field staff to screen imported soil and observe placement activities as per an approved work plan. In addition, the facility was located within a Class III Special Resource Groundwater Area which required pre- and post-development monitoring to establish baseline criteria to assess if development activities would impact the groundwater. A Comprehensive NFR Letter was issued in June 2018 which included an industrial/commercial land use restriction and reliance on engineered barriers.

Cook County Department of Environmental Control

Project Manager/Technical Lead

Prepared a USEPA Brownfield Assessment Grant proposal for the Cook County Department of Environmental Control (currently The Cook County Department of Environment and Sustainability) which led to the attainment of a $645,000 environmental site assessment services contract. Assisted Cook County in organizing public community meetings with both local government representatives as well as business owners and residents of the municipalities within the coalition communities in an effort to identify potential redevelopment properties. Tasks also included preparation and submittal of a quality assurance protection plan, eligibility determinations, as well as updating the ACRES brownfield database and state GIS database with property profiles. Led the completion of thirty-two Phase I ESAs and seventeen Phase II ESAs completed as part of the program activities. Seven sites were selected for clean-up and end use planning. This contract was successfully reacquired in 2019.

Village of Midlothian Brownfield Assessment Grant

Project Manager/Technical Lead

Prepared a USEPA Brownfield Assessment Grant proposal for the Village of Midlothian which led to the attainment of a $400,000 environmental site assessment services contract. Assisted the municipality in organizing public community meetings with both local government representatives as well as business owners and residents of the Village of Midlothian in an effort to identify potential redevelopment properties. Tasks also included preparation and submittal of a quality assurance protection plan, eligibility determinations, updating the ACRES brownfield database and state GIS database with property profiles. A total of thirty-nine sites were initially evaluated during the inventory process for grant assessment activities. Seventeen sites were approved for Phase I ESAs, and seven sites were approved for Phase II ESAs. Six sites were successfully redeveloped, with new jobs created in association with the operations of the sites, and sales tax revenue being generated for the Village after redevelopment of the formerly unused brownfield sites. The remaining sites were positioned for sale and redevelopment should the owners elect to sell or redevelop the properties in the future.

Former Maywood Park Racetrack

Project Manager/Technical Lead

Conducted USEPA Brownfields Assessment activities for Cook County that included a Phase I ESA and Phase II ESA at a 55.58-acre property in Melrose Park, Illinois. The property included a former racetrack and thirty-eight associated facilities and buildings. A Phase II ESA was conducted to further assess the identified recognized environmental conditions (RECs) and identify the location of suspect USTs. Based on the site investigations, various contaminants of concern were observed within the soil and groundwater in excess of Tier 1 remediation objectives. Multiple USTs were identified on the property during demolition and development activities, resulting in multiple LUST Incident Numbers issued to the Property. NFR Letters have been issued for each of the LUST Incidents.

Industrial Redevelopment Property in Franklin Park, Illinois

Project Scientist

Conducted USEPA Brownfields Assessment activities for Cook County at a 4-acre property in Franklin Park, Illinois that included a Phase I ESA and Phase II ESA. Polynuclear aromatic hydrocarbon and metal impacts were identified within soil and groundwater. As a result of the work for Cook County, a private developer requested environmental services in support of combining multiple properties into one development and enrolling the property into the IEPA SRP. The remedial strategy included establishing a soil management zone to assist in grading and soil balancing across the Property, as well as reliance on institutional controls and engineered barriers, which resulted in considerable cost savings to the owner. A NFR Letter has been issued for this Property.

Electric Generating Facility in New Jersey

Project Manager/Technical Lead

Conducted Phase I ESA activities at a 230-acre inactive fossil-fuel electric generating facility. The facility had been generating electricity utilizing coal, fuel oil, kerosene, and natural gas since 1873. Historical and existing power generating units, waste water treatment plants, switchyards, ash ponds, coal pile areas, and a former landfill were noted at the facility. Nine RECs, including twenty-eight subsets to the RECs, were identified. The activities also included a review of liability associated with known environmental impacts to a nearby waterway, identifying the presence of potential suspect asbestos containing materials and lead-based paint, and identification of wetlands and floodplains on or near the property. Reviewed the proposed Phase II ESA activities by a local consultant and assisted with coordination of field activities and interpretation of soil and groundwater sample results.

MWRDGC Phase I ESAs and Compliance Assessments

Project Manager/Technical Lead

Prepared a proposal for the Metropolitan Reclamation District of Greater Chicago (MWRDGC) to conduct Phase I ESAs and Compliance Assessments at properties located along various corridors of the Chicago Area Waterway System. The proposal included the creation of an online forum-based data management system to track, store, and make reports available to registered users within the MWRDGC and participating authorized companies. The compliance assessment reports included a review of regulatory and on-site documentation to determine compliance with air, water, and waste regulations, including a review of Spill Prevention Control and Countermeasures Plans, Facility Response Plans, and Risk Management Plans. Led the completion of over fifty Phase I ESAs and Compliance Assessments conducted as part of this program. This contract was successfully reacquired for a second term in 2014.

Natural Gas Utility Company

Project Scientist/Technical Lead

Completed hundreds of wetland determinations by conducting records reviews of federal and state sources and other wetland information to identify wetland areas. These activities were generally conducted within road right-of-way areas to support repair or installation of underground utility lines. Also completed hydrophytic plant, wetland hydrology, and hydric soils identification to delineate wetland boundaries in the field, if necessary. Utilizing these results, obtained permits in counties throughout Illinois for development activities, primarily in Cook, DuPage, Lake, Will, Kendall, Grundy and LaSalle counties. These permits generally included watershed development permits, stormwater management permits, floodplain permits, and/or wetland development permits. After obtaining applicable city, county, state and/or federal permits or approvals, conducted oversight during construction activities to assess that permitted activities remained in compliance.

Separate from the above, conducted Method 9 visible emissions monitoring at a facility located in Naperville, Illinois. This included visual observations of a smoke plume from a stack, with opacity measurements recorded every fifteen seconds for six minute intervals. Prepared a report documenting the observation activities and provided our recommendations.

Visible Emissions Testing at a Concrete Crushing Facility

Project Scientist

Conducted annual Method 9 visible emissions monitoring at a concrete crushing facility located in Addison, Illinois. This included visual observations of a dust plume from a stack, with opacity measurements recorded every fifteen seconds for six minute intervals. Prepared a report documenting the observation activities and our recommendations. Also prepared the facility emission calculations and

Annual Emissions Reports.

IFF Environmental Compliance
Project Manager/Technical Lead
Led multiple environmental compliance services to the IFF Suburban Housing Rehabilitation project which included preparation of statutory worksheets for single-family homes in the greater Chicago area. Prepared over fifty compliance reviews which included a review of Illinois Historic Preservation Agency records, Federal Emergency Management Agency Flood Insurance Rate Maps, documents pertaining to environmental justice, preparation of noise abatement and control calculations, a review of hazardous, toxic or radioactive materials and substances, and recommend mitigations measures based on the assessment results.

Charitable Sanctuary Development in Gary, Indiana
Project Manager
Conducted a Phase I ESA at a 1.88-acre brownfield redevelopment property in Gary, Indiana. The property had formerly been improved with multiple residential homes which had previously been demolished, and the known and potential presence of USTs associated with the former residences were identified as a REC. During development activities, an approximately 500-gallon heating oil underground storage tank was discovered, and subsequently removed. Visual and olfactory indications of impacts were observed during the removal, and soil was excavated and appropriately disposed at an offsite approved facility until soil sample results indicated no remaining impacts above regulatory objectives. Prepared a Soil Management Plan and reviewed engineered barrier construction plans and provided oversight to assess conformance with the approved plans. Prepared a Remediation Completion Report documenting site activities and demonstrating that the soil management and engineered barrier construction activities were completed in accordance with the approved plans.

Former Steel Mill in Baltimore, Maryland
Project Scientist
Conducted a Phase I ESA at a former steel mill facility which had operated from 1887 to 2012 which included a three day site reconnaissance of the property and adjoining properties. In January 1917, the facility consisted of approximately 2,166-acres of land, with the property consisting of approximately 3,100-acres of land at the time of the report due to slag filling operations. During peak production in 1959, the facility operated twelve coke oven batteries, ten blast furnaces, and four open hearth furnaces. The coke ovens ceased operations in December 1991. Demolition work began in June 1992 and continued to the date of the site visit. The property was also part of a Consent Order through the USEPA and Maryland Department of the Environment to address releases from historical and on-going operations at the facility. In total, over 282 findings were identified with the property and adjoining properties, with over 200 RECs and/or solid waste management units were identified as part of the report. Assisted with the preparation of conceptual site plans, Phase II ESA site investigation plans, and addressing comments by the Maryland Department of the Environment and other associated agencies.

South Suburban Mayors and Managers Association
Project Scientist
Conducted Phase I ESA and Phase II ESA activities associated with a $1,000,000 USEPA Brownfield Assessment Grant for the South Suburban Mayors and Managers Association (SSMMA), which included the City of Harvey, Village of DIxmoor, Village of Phoenix, Village of Dolton, Village of South Holland, and Village of Riverdale. A total of forty sites were initially evaluated during the inventory process for grant assessment activities. Approximately twenty sites were approved for Phase I ESAs, and ten sites were approved for Phase II ESAs which were each considered for redevelopment planning activities.

Landfill Construction Quality Assurance

Environmental Scientist

Provided Construction Quality Assurance observation, testing, and documentation for the installation of more than 500-acres of landfill cells. The landfill cells generally consisted of a compacted clay liner, leachate collection systems, geosynthetic liners, geotextiles, and a graded permeable sand or gravel drainage layer. Conducted a review of construction documents, oversight of materials testing, measured compaction of soil materials with a nuclear density gauge, and provided summary reports for integration into construction reporting.

USEPA Lake Guardian

Environmental Scientist

Led the chemical safety program aboard the Lake Guardian, a USEPA research vessel carrying scientific crews throughout each of the Great Lakes. Conducted intermittent safety inspections at the laboratories located within the vessel. Conducted water sampling activities at fresh water tanks, drinking water dispensaries, and safety faucets. Responsible for testing emergency equipment, including fire protection equipment, evacuation equipment, and lock down facilities. Conducted onboarding meetings, orientations, and safety briefings to all entering personnel and guests.

Robert Suda

Robert W. Suda, PG, CPESC, DECI, Vice President, Environmental Director

Mr. Suda is an Illinois licensed professional geologist with 33 years domestic and international experience in environmental management, protection, and restoration. His diverse experience includes the planning, development, and implementation of environmental due diligence studies, environmental audits, engineering feasibility studies, remedial construction projects, Environmental Impacts Studies (EIS) and Environmental Assessments (EA) under National Environmental Policy Act (NEPA), natural resource conservation and restoration programs, pollution prevention/waste minimization audits, soil and groundwater remediation programs, hazardous materials surveys and abatement, groundwater and drinking water protection studies, erosion and sediment control, stormwater protection, and construction compliance monitoring programs. He is experienced in all project phases, from initial field studies to the preparation of plans, specifications, preliminary design, permitting, bid documents, and construction management. As an Environmental Program Manager, Mr. Suda is primarily responsible for the management of large, multi-disciplinary environmental service projects for surface transportation, aviation, utilities, and other corridor projects. He recently served as an Environmental Lead providing design, environmental compliance, and permitting services for the Illinois Tollway's 15-year, $14 billion capital program and managed the Illinois Tollway's MS4 program.

Education

Master of Science, Environmental Science - 1992 Southern Illinois University
Edwardsville, IL

Bachelor of Science, Geology – 1989 University of Illinois
Chicago, IL

Experience

33 Years

Expertise and Specialized Training

Hazardous Material Management
Environmental Assessment and Remediation
Environmental Compliance and Permitting
Environmental Due Diligence
NEPA Studies and Documents
Storm Water Quality
Groundwater Resource Protection
Erosion & Sediment Control
Natural Resource Conservation and Restoration

Licenses, Registrations & Certifications

Licensed Professional Geologist, IL. #196-000778; Licensed Professional Geologist, IN, #1719; Certified Professional in Erosion and Sediment Control (CPESC) #5577; Certified Stormwater Inspector (CSI) # 8466

OSHA 40-Hour HAZWOPER Certificate; OSHA 8-Hour HAZWOPER Refresher; OSHA 10-Hour Construction Safety Certificate; CTA Rail Safety Training; Asbestos Inspector Training; Lead-Based Paint Inspector Training.

IDOT, Erosion and Sediment Control Workshop Module 1: Fundamental Module Fundamental Module IDOT, Erosion and Sediment Control Workshop Module 1: Fundamental Module 3 Inspection Module

Relevant Experience

Hazardous Waste

ComEd, Master Environmental Services Contract, IL
Client Service Manager for a contract to provide environmental services for projects throughout the entire ComEd service territory. The five-year, $20+ million contract includes general compliance, site investigation and remediation, waste management, and environmental permitting services. Projects include This may include, but not limited to substation construction/demolition, linear corridor modifications, new facility constructions, demolition, storage tank upgrades or abandonment, acquisitions and divestitures, and environmental remediation. Responsible for managing a current team of 10+ professional staff executing 50+ projects annually.

Cook County Department of Transportation and Highways, Busse Road between Golf Road and Central Avenue Phase I Design Study - Mt Prospect, IL
Project Manager/Technical Lead
Led the completion of a Preliminary Environmental Site Assessment in accordance with the requirements outlined in "A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation Infrastructure Projects" for the approximate 1.25-mile section of roadway. The objective of the study was to assess potential environmental contamination associated with the proposed improvements to address geometric modifications and pavement rehabilitation, by means of widening/reconstruction or reconstruction. Potential improvements to be assessed also included a center median to accommodate turning vehicles, adding turn lanes at intersections, adding traffic signals, and adding sidewalks. Prepared the PESA report to provide a professional opinion as to whether the inquiry identified conditions indicative of releases or threatened releases of hazardous substances.

Cook County Department of Transportation and Highways, Sanders Road between Milwaukee Avenue and Techny Road Phase I Design Study – Glenview, IL
Project Manager/Technical Lead
Led the completion of a Preliminary Environmental Site Assessment in accordance with the requirements outlined in "A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation Infrastructure Projects" for the approximate 1.9-mile section of roadway. The objective of the study was to assess potential environmental contamination associated with the proposed improvements to address pavement rehabilitation, address pavement rehabilitation, by means of resurfacing or reconstruction. Also investigated was a minor realignment of Sanders Road into Milwaukee Avenue, a sidewalk evaluation of the project corridor, an evaluation of an added traffic signal at Winkleman Road, and an addition of turn lanes at intersections with high left turn volumes. Prepared the PESA report to provide a professional opinion as to whether the inquiry identified conditions indicative of releases or threatened releases of hazardous substances.

ComEd, Rockford Public Library, Former MGP Site Demolition - Rockford, IL

Project Manager/Technical Lead

Led the development of a bid specification package for demolition of the existing Rockford Public Library, 215 North Wyman Street in Rockford, Illinois in preparation for remediation of underlying contamination associated with a former MGP site. The primary objective of our work was to prepare a Bid Specification Document for issuance to potential Contractors with the necessary information for them to prepare a bid for demolition of the existing structures on the property including the abatement and handling of all hazardous building materials. As part of our work, led additional surveys of the building structure to fully identify and quantify the hazardous materials present, building upon the previous surveys completed by AECOM. Providing support during the bidding process including pre-bid meeting support and assistance with the bid evaluation and Contractor selection.

ComEd, Big Muddy MGP Site - Murphysboro, IL

Project Manager/Technical Lead

Led design services to support demolition of three buildings, a 40'x45' single-story building with basement, a 43'x82' three-story building with basement, and a 50'x47' 2-story building with basement on the property at 98 South 3rd Street, Murphysboro, Illinois. The work initially consisted of completion of a hazardous material and regulated waste survey for the building structures. We subsequently prepared a Bid Specification Document for issuance to potential contractors with the necessary information for them to prepare a bid for demolition of the existing structures including the requisite abatement and handling of all identified hazardous building materials and regulated wastes.

City of Ann Arbor, Closed Landfill, Slurry Wall Construction – Ann Arbor, MI

Resident Engineer

Resident Engineer for construction of a 9,600-linear-ft-soil-bentonite slurry wall at the City of Ann Arbor closed landfill. The slurry wall was constructed as part of a remedial action to address contaminated groundwater associated with the landfill. Responsibilities included implementing the construction quality assurance plan and administering the contract. Performed daily inspection of construction activities, performed QA testing of bentonite slurry and trench backfill material, reviewed QC testing reports for conformance with the specifications, and developed and maintained a database to manage QA/QC field tests. Mr. Suda directed a soil boring program to investigate subsurface soil conditions to support an addition to the original design. He assisted in the interpretation of subsurface soil conditions to establish the required wall depth along the specified alignment.

U.S. Army Corps of Engineers, Former Finland Air Force Station, Fractured Bedrock Groundwater Flow and Contaminant Transport Models - Lake County, MN

Project Scientist

Responsible for the development of a groundwater flow model for the former U.S. Air Force station. Developed a model to simulate groundwater and contaminant movement in fractured granite bedrock over a 5-square mile area. Integrated extensive well log, water quality, and climatic data into Groundwater Modeling System (GMS) software to develop the model. Utilized the results to evaluate strategies to remediate contaminated groundwater caused by historical waste disposal activities and assess the potential for impacts to nearby potable water supply wells.

Illinois Environmental Protection Agency, Paxton Avenue Lagoons, Superfund Site Closure - IL
Resident Engineer
Resident Engineer for construction of a low-permeability, multi-layer, landfill cover system at the Illinois Superfund site. Previous on-site remedial activities included high-temperature incineration of hazardous waste, including PCBs, volatile and semi-volatile organic compounds, and heavy metals. Work was conducted to obtain site closure by installation of the cover over the incinerator ash disposed on-site. Responsibilities included construction observation and documentation, review of QA/QC material test reports to verify conformance with construction specifications, processing progress payment requests, change order preparation, safety assurance, and report of work progress to the project engineer. Worked with the contractor to interpret drawings and contract specifications and provided general technical assistance as required. In excess of 100,000 cubic yards of material were placed to construct the cover system.

Former Simpson Electric Property Site Remediation Program Closure - Elgin, IL
Project Principal
Project Principal responsible for the overall planning and execution of a program to obtain a comprehensive No Further Remediation letter for an approximate 5.7-acre industrial parcel in Lincolnwood, Illinois. Redevelopment plans for the property called for single family homes and renovation of an existing industrial warehouse as a multi-family condominium. As part of a Phase I ESA, identified as many as 20 recognized environmental conditions including USTs leaking electrical transformers, cisterns, surface staining, boiler ash storage, and a LUST incident on the property. Preliminary subsurface investigations indicate the presence of VOCs, PNAs, and PCBs on the property. Mr. Suda assisted in the review of available information regarding the existing site conditions and lead efforts to develop an approach to obtain a comprehensive NFR letter for the property. Recommended geophysical surveys, sewer video inspections, soil borings and soil sampling, and groundwater investigations.

Illinois Environmental Protection Agency, Ability Drum Site - Washington, Illinois
Environmental Scientist
Environmental scientist responsible for environmental assessment and remediation oversight for former drum recycling facility contaminated with solvents, metals, and PCBs. Remediation activities were completed in two phases and included excavation of 5,500 cubic yards of soil, lagoon closure, and removal of 75 drums of hazardous liquids. Performed soil confirmation sampling to demonstrate attainment of the soil remediation objectives and performed long-term groundwater monitoring at the site.

General Electric, RCRA Drum Storage Pad Closure - Bloomington, IL
Environmental Scientist
Environmental scientist responsible for environmental assessment and remediation oversight for an active RCRA storage facility. Reviewed site history and conducted soil sampling to verify existing site data and to determine contaminants and areas of concern. Due to the history of releases over a period of several years, four contaminants of concern were found to exceed cleanup objectives beneath portions

of the concrete pad. Provided oversight for the decontamination and removal of the 50-ft x 5-ft concrete storage pad and approximately 400 cubic yards of soil which were stabilized on-site and transported off-site for disposal at a RCRA permitted hazardous waste disposal facility. Collected confirmation samples and prepared closure report for submittal to the Illinois EPA.

U.S. Air Force, Multi-Site Remedial Investigation / Feasibility Study (RI/FS) - Scott AFB, IL
Project Manager/Technical Lead
Responsible for implementation of an approximate $2.5 million RI/FS Program for four Installation Restoration Program (IRP) sites at Scott AFB including a former landfill, a former fire protection training area, a former aircraft maintenance hangar, and a former entomology shop. Planned and provided oversight of investigations to characterize the nature and extent of impacts. Identified the discharge of landfill leachate to adjacent wetlands and the presence of trichloroethylene as free product in groundwater. Based on the nature and extent of impacts, led efforts to develop and assess remedial alternatives for suitability for the recognized impacts. Provided overall direction and coordination of the work including staffing, subcontractor procurement, and scheduling. Responsible for the preparation of monthly progress status reports and the daily communication with client personnel. Responsible for technical review of documents to ensure conformance with the work requirements and internal quality control standards. Developed and negotiated contract modifications to address changes in the project schedule and work requirements. Successfully worked to integrate and complete changes in the work requirements within the original project budgets.

U.S. Army Corps of Engineers, Nike C-70 Missile Site - Naperville, IL
Technical Manager
Responsible for assessment and mitigation of environmental impacts due to the historical operation of the Nike C-70 missile site. Under the Total Environmental Restoration Contract, worked with U.S. Army Corps of Engineers staff to develop planning documents and implement multi-phase multi-media investigations at the site. Provided oversight and direction of soil and groundwater investigations which included the installation and sampling of more than 60 groundwater monitoring wells in three separate aquifers. Led efforts to determine the source of groundwater impacts by chlorinated solvents which extended over area more than 2 miles in length that necessitated the abandonment of more than 50 nearby private residential wells. Incorporated the findings of a historical records search and the results of previous investigations at Nike C-70 into an Environmental Assessment report which outlined an understanding of the historical site operations, contaminants, and recognized environmental conditions. Prepared a comprehensive Remedial Investigation Report based on the findings presented in the Environmental Assessment report and the results of ongoing investigations. Supported public meetings through preparation of technical updates on the progress and status of investigations.

Amtrak, Union Station Rail Yard - Chicago, IL
Project/Technical Manager
Mr. Suda served as project/technical manager for environmental, safety, and material testing services being performed for the $100 million Design Build project at Amtrak's Union Station. As part of his responsibilities, he provided direction and oversight of subsurface investigations prior to construction to characterize shallow soil conditions throughout the limits of the approximate 265-acres to identify

potential future contaminant exposures to construction workers. He led similar investigations to assess construction worker exposures to the presence of diesel product encountered in portions of the work area and developed a plan to allow excavation work to safely proceed while mitigating potential explosion and chemical exposures within the diesel field contaminated areas.

Multi-Site Investigation and Remediation, Rosecrans Air National Guard Base – Missouri
Technical Lead/Project Manager

Project Manager and Technical Lead for an approximate $2 million Remedial Investigation and Remedial Action Program at three Environmental Restoration Program Sites at the active Air National Guard Base. These include a former fire protection training area, a solvent spill site, and a former wash-rack wastewater holding pond. Mr. Suda was responsible for the preparation of Remedial Investigation (RI) Work Plans, execution of the planned RI field investigations and preparation documents to support remedy selection including preparation of CERCLA Proposed Plan and Record of Decision documents. Negotiated acceptance of these documents with the state regulatory agency to support excavation of contaminated soil, groundwater monitoring with a contingency treatment option (chemical oxidation) for groundwater impacts, and a No Further Remedial Action Planned (NFRAP) decision. Following implementation of remedial actions at selected sites, Mr. Suda led the effort to prepare remedial action completion documents and participated in regulatory negotiations to obtain closure for each of the sites. In addition, Mr. Suda prepared work plans and provided oversight and direction for a base-wide groundwater background study to support the lack of need to address metals in groundwater at the installation.

Hazardous Waste Assessment, Trunk Highway 10, Anoka County, MN
Project Manager and Technical Lead

Investigated the presence of environmental conditions that might be of concern during the planned reconstruction of the 6-mile segment of 4 lane roadway, including construction of new entrance and exit ramps. The assessment was completed in accordance with requirement of the Minnesota Department of Transportation. The assessment included corridor history research, government environmental database search, site reconnaissance, regulatory agency file record review, and interviews. Based on the assessment, a total of 25 properties were categorized as low risk potential, 34 were categorized as medium risk potential, and 9 were categorized as high-risk potential. The identified concerns included a large number of sites that were current or former auto repair, auto body, and metal scrap operations. The rationale for risk determination and impacts to the planned reconstruction project was outlined in a summary report based on the nature of the identified concerns, proximity to the project, and areas of planned or potential acquisition. Results were incorporated into an Environmental Impact Statement (EIS) prepared for the project.

Accurate Manufacturing Company, Environmental Assessment and Restoration Planning - Alsip, IL

Project Manager

On behalf of the property owner, served as Project Manager to support transfer of an approximate 54,000 square foot building utilized as an industrial manufacturing facility. Conducted a review of the Phase I and Phase II Environmental Site Assessments (ESA's) prepared by others that reported several environmental concerns, including the presence of asbestos, groundwater contamination, and investigation derived wastes on the property. The objective of the document review was to assess the technical adequacy and accuracy of the information in the reports for use in future decision making, to help the seller understand the facts upon which the purchasers position rests, and to support development of a strategy to facilitate transfer the property. Mr. Suda focused the review on the appropriateness of the conclusions and recommendations through assessment of the technical data and information in the documents. He prepared a letter report presenting the findings of the technical review. He outlined the current understanding of the environmental conditions at the site and identified needs for additional information to evaluate response options to address contamination, the cost to implement response actions, and measures to control or cap liabilities and costs.

Subsurface investigations completed at the site on behalf of the potential buyer reported the presence of volatile organic compounds (VOCs) in groundwater at the site above Illinois groundwater remediation objectives (35 Illinois Administrative Code Part 742). Based on the field methods utilized, Mr. Suda judged that the resulting data may not accurately represent groundwater conditions at the sampled locations. Recommended that the owner install and sample groundwater from properly constructed monitoring wells at the approximate locations previously sampled to confirm or deny the results of previous investigations to assess the need for additional actions. Mr. Suda provided direction and oversight of the recommended well installation and sampling activities.

Mr. Suda prepared a report summarizing the findings and prepared recommendations for further actions to address recognized environmental conditions and facilitate sale of the property. Prepared recommendations including details regarding the process to obtain a No Further Remediation Letter from the Illinois Environmental Protection Agency Site Remediation Program.

U.S. Army Corps of Engineers, Former O'Hare Air Reserve Station, Sanitary Sewer System Environmental Characterization - Chicago, IL

Project Scientist

Responsible for assessment of soil contamination along approximately 2.0 miles of sewer due to solvent releases into the system. Developed project planning documents for approval by U.S. EPA Region V and Illinois EPA to delineate the nature and extent of contamination. Assisted in reviewing historical records of operations near the sewer, video logging of the sewer, soil gas surveys at breaches in the sewer, and collection of soil samples at areas of concern based on the due diligence assessment and soil gas investigation. Prepared a recommendation for No Further Action closure based on the investigation results and human health risk assessments.

U.S. Army Corps of Engineers, Former O'Hare Air Reserve Station, Groundwater Protection Evaluation - Chicago, IL

Project Scientist

Project Hydrogeologist to evaluate impacts to groundwater resources resulting from historical releases of trichloroethene (TCE) at the former military base. Utilized a dissolved phase steady state attenuation screening level contaminant transport model to predict off-site groundwater impacts in the upper portion of the unconfined glacial till aquifer. Developed model inputs including soil porosity, aquifer hydraulic conductivity, groundwater flow direction and gradient and first order contaminant decay rate. Completed field hydraulic conductivity tests in four wells using slug test method in accordance with ASTM D4044-91 to support the model. Utilized an In-Situ HERMIT Environmental Data Logger, Model SE-1000C and its associated pressure transducer to collect the slug test data. Evaluated field test data using the Bouwer and Rice method for unconfined aquifers with the commercial software package AquiferTest®. Prepared potentiometric surface maps to establish groundwater flow direction and gradient. Calibrated the model using sample data from observation wells near the contaminant source. Demonstrated that the predicted TCE concentration in groundwater at the property boundary would be below the regulatory established groundwater standard for an Illinois Class I potable groundwater resource.

Landmark Investments, Commercial Site Development - South Chicago and South Chicago Heights, IL

Project Manager

Project Manager to address environmental conditions associated with redevelopment of an industrial-commercial parcel in South Chicago and a residential parcel in South Chicago Heights. Redevelopment plans for the South Chicago parcel called for demolition of the existing structures and construction of a grocery store and an auto parts store. The South Chicago Heights parcel called for demolition of the existing residential structures and construction of an auto parts store. A Phase I Environmental Site Assessment completed by others identified underground storage tanks, surficial staining, historical automobile maintenance operations, solvent use on the South Chicago parcel and potential asbestos containing materials in the structures on each parcel. Provided overall direction and oversight of the removal of the USTs and completion of a pre-demolition asbestos survey for the existing industrial-commercial and residential structures. Prepared a UST removal documentation report outlining the tank removal activities, results of confirmation soil samples, and recommendations to address residual contaminants. Prepared asbestos survey reports for each structure outlining the types and locations asbestos containing materials. Coordinated with contractors to develop a cost estimate for asbestos abatement.

Inland Metals Site, Remedial Investigation / Feasibility Study - Chicago, IL

Project Manager

Project Geologist for a Remedial Investigation / Feasibility Study (RI/FS) for the Illinois EPA's Inland Metals site. The five-acre site was formerly used to process ore by-products to extract metals such as tin, zinc, copper and lead. Objectives of the investigations were to determine the nature of contaminated in soils, sediment, surface water and groundwater, characterize the slag wastes with respect to possible metals recovery, and identify and evaluate innovative remedial technologies applicable to the site. Mr.

Suda directed field investigations which included drilling 10 soil borings using combined hollow-stem auger and mud-rotary techniques to maximum depths of 100 ft.; installation of six, 2-in-dia., Type 304 stainless steel groundwater monitoring wells; and collection of soil, groundwater, surface water and sediment samples for laboratory chemical analysis. Based upon the investigation results, prepared a RI report that included evaluation of site geology, hydrogeology, and the extent of contamination. Performed a focused assessment to identify innovative remedial technologies that may apply to the site. Utilized investigation data to quantify the volume of contaminated media, performed a background literature search to obtain information on innovative technologies and potential developers with equipment for recovery of metals, and evaluated identified technologies for applicability to the site. Prepared a final project report which included the results of the RI, provided a description of the technologies identified, and included a technical and cost evaluation for each remedial alternative developed including limitations, reliability, and environmental regulatory acceptance.

O'Hare Forestry Site, Drum Burial Environmental Assessment – Chicago, IL

Project Geologist

Project Geologist for a preliminary Phase II environmental assessment of an approximate 35-acre site reported to potentially contain buried drums of pesticides. Led field investigations to develop a conceptual site model to characterize the nature and extent of contamination, describe potential contaminant migration pathways, and define potential exposure pathways. Implemented an electromagnetic and total field magnetic survey to define the extent of fill materials and locate areas of buried ferrous metal, which could represent the possible location of buried drums. Developed and implemented a subsurface drilling and sampling program based on the results in the geophysical survey to collect subsurface soil and groundwater samples for laboratory chemical analysis. Integrated the results of the geophysical survey and subsurface sampling program to select locations for test pit excavations to visually confirm the presence or absence of buried drums. Compiled site data obtained in a final project summary report, which outlined recommendations for additional actions based on current and anticipated future property use.

Cannon Air Force Base Fire Training Area No. 4, RCRA Facility Investigation - New Mexico

Project Geologist

Project Geologist responsible for implementation of field investigations, evaluation and interpretation of resulting data, and preparation of a RCRA Facility Investigation (RFI) report for an approximately 5-acre former fire training area at an active military base. Field activities included a passive soil gas survey consisting of installing, retrieving, and analyzing soil gas screening modules constructed of GORE-TEX expanded polytetrafluoroethylene (ePTFE) tubing at 40 locations; completion of 19 soil borings drilled to depths between 20 and 90 ft using Rotosonic drilling methods; collection of 77 surface and subsurface soil samples for held immunoassay screening using ENSYS Petro Soil Sample Pro test kits for Total Petroleum Hydrocarbons; laboratory chemical analysis for volatile and semi-volatile organics, metals, total recoverable petroleum hydrocarbons, and cyanide; collection of 12 soil samples for geotechnical testing, including particle size analysis (ASTM D422) and moisture content testing; and collection of continuous soil samples from each boring for lithologic description (ASTM D 2487).

Evaluated the results of the passive soil gas survey to define the lateral extent and distribution of volatile and semi-volatile organic compounds. Developed a sampling rationale based on the results of the passive soil gas survey to select soil boring locations for surface and subsurface sampling to delineate the vertical and lateral extent of contamination. Prepared geologic cross-sections to characterize site geology and illustrate the extent of contamination. Evaluated the fate and transport characteristics of site contaminants based on site geology and contaminant chemical and physical properties. Integrated the results of the field investigations, along with the results of a human health evaluation and ecologic risk assessment into an RFI report to support a "No Further Action" remedial alternative.

U.S. Army Corps of Engineers, Iowa Army Ammunition Plant, Engineering Evaluation/Cost Estimate - IA

Project Scientist

Supported performance of an Engineering Evaluation/Cost Analysis (EE/CA) to evaluate potential remedial options for a former fire training area at the active Department of Defense (DOD) facility. Assisted in the development of feasibility cost analysis for 12 remedial alternatives. Prepared detailed cost estimates using estimating software and evaluated remedial alternatives based upon overall protection of public health and the environment; compliance with ARARs; long-term effectiveness and permanence; reduction of toxicity, mobility or volume; short- term effectiveness; technical and administrative feasibility; and state and community acceptance.

U.S. Air Force, Aircraft, Washrack Drainage System Environmental Assessment - Chicago, IL

Project Scientist

Responsible for assessment of soil contamination for the Aircraft Washrack Pad (Site OTH-2531-1) at the former O'Hare Air Reserve Station, Chicago, Illinois. The site consisted of an approximately 2,500 square yard washrack between Buildings 19 and 30 used for aircraft cleaning and degreasing operations until cessation of military operations. The reinforced concrete washrack pad sloped toward a reinforced concrete drain trough, which directed stormwater and wash water to either the storm drainage system or to an oil/water separator, as appropriate based on the site operations. Site investigation activities were planned and implemented to assess the nature and extent of contamination on the washrack pad as well as the drainage and piping system. Results identified the presence of petroleum contamination at various locations. Prepared a risk assessment supporting a no-further action determination from US. EPA and Illinois EPA.

U.S. Air Force, Sewer System Remedial Action, TCE Site (IRP-SS-019) - Chicago, IL

Project Scientist

The site was identified during due diligence sampling by potential future land users and consists of a grassed field in the northeast corner of the Former O'Hare ARS, adjacent to Building 4. Soil sampling identified trichloroethene (TCE) and minor concentrations of TCE degradation products in soil at concentrations in excess of the screening criteria between a 72-inch diameter concrete storm sewer and a 21-inch diameter clay tile sanitary sewer line. Provided technical planning and oversight for the removal of approximately 6,730 cubic yards of TCE contaminated soil which were excavated and transported to an offsite disposal facility. Performed supplemental confirmation sampling which

indicated the need for additional removal of approximately 425 additional cubic yards of soil. Prepared closure documentation supported by confirmation soil sampling which were reviewed and approved by U.S. EPA and Illinois EPA.

Shell Oil Company, Free-Phase Hydrocarbon Characterization and Recovery - St. Louis, MO
Project Scientist
Hydrogeologist to assess leakage of hydrocarbons into subsurface soils and groundwater at an operational retail gasoline station. Mr. Suda analyzed the nature and extent of contamination through extensive soil and groundwater sampling for dissolved aromatic hydrocarbons and free-phase gasoline. Assisted in the design and supervised the installation of a hydrocarbon recovery trench and associated equipment and facilities. An automatic skimmer pump for hydrocarbon recovery was installed to remove floating hydrocarbons. Recovered product was stored in a temporary on-site holding tank and transported to a fuel reclamation facility.

Shell Oil Company, Groundwater Recovery and Treatment System Construction - St. Charles, MO
Project Scientist
Resident Engineer for installation of a groundwater recovery and treatment system at an active retail gasoline station in St. Charles, Missouri. The treatment system included the installation of a free-product recovery trench and a tray-stripping unit for treatment of dissolved gasoline components. Responsibilities included construction oversight, coordination of equipment deliveries, resolution of problems encountered during construction, and status reporting to the project engineer. Separate phase hydrocarbons were removed from total fluid flow and dissolved hydrocarbons were removed to levels required by the Missouri Department of Natural Resources.

Los Angeles County, Soil Vapor Extraction Remedial Action - Los Angeles, CA
Project Scientist
Geologist for design and construction of a soil vapor extraction system for rail yard located near Los Angeles, California. Site characterization activities identified approximately 15,000 cubic yards of impacted soil containing chlorinated volatile organic compounds. Responsibilities included preparation of remedial design report, including plans and specifications for additional site assessment and pilot scale testing, permit requirements, system operations, monitoring and maintenance measures, and a health and safety plan. Mr. Suda also assisted in preparation of the bidding document for installation and operation of the soil vapor extraction system.

Shell Oil Company, Groundwater Recovery and Treatment System Design - St. Louis, MO
Project Scientist
Hydrogeologist for a groundwater remediation project in St. Louis, Missouri in response to a gasoline spill. Mr. Suda analyzed the nature and extent of contamination through extensive soil and groundwater sampling for dissolved aromatic hydrocarbons. Designed and supervised the installation of a network of groundwater monitoring wells. Assisted in conceptual and preliminary design for a hydrocarbon recovery trench and groundwater treatment system. Prepared a process flow diagram, a conceptual site layout drawing, and developed estimated discharge characteristics. Assisted with preliminary design tasks included preparation of facility plans and equipment layouts, development of major equipment lists, identification and selection of qualified vendors, and preparation of preliminary cost estimates. A carbon

adsorption system was designed and installed to treat groundwater at a rate of 25-gpm to reduce contaminant concentration below method detection limits.

Chicago Department of Environment, North Elston Avenue SRP Closure - Chicago, IL
Project Manage/Scientist
Project Manager responsible for the planning and execution of investigations and reporting to obtain a comprehensive No Further Remediation letter from the IEPA for this undeveloped former industrial site historically used for the mixing and packaging of varnish, extrusion of aluminum, and die casting. Developed and provided oversight of field investigations to assess potential impacts to soil and groundwater. Results indicated the presence of PCBs, VOCs, and PNAs above TACO Tier 1 soil remediation objectives. Provided review of the calculation of Tier 2 remediation objectives for VOCs and PNAs. Assisted in the development of a remedial action plan that included the excavation of soils exceeding the Tier 2 SROs for VOCs and PNAs and the TSCA cleanup level for PCBs. Developed an action plan that included capping the site with an engineered barrier, limiting property use to industrial-commercial, and limiting property use to low occupancy defined by TSCA. Provided technical and completeness reviews of a Comprehensive Site Investigation, Remediation Objectives, and Remedial Action Plan and negotiated regulatory acceptance of the document.

Illinois Environmental Protection Agency, Ability Drum Site - Washington, Illinois
Environmental Scientist
Environmental scientist responsible for environmental assessment and remediation oversight for former drum recycling facility contaminated with solvents, metals, and PCBs. Remediation activities were completed in two phases and included excavation of 5,500 cubic yards of soil, lagoon closure, and removal of 75 drums of hazardous liquids. Performed soil confirmation sampling to demonstrate attainment of the soil remediation objectives and performed long-term groundwater monitoring at the site.

General Electric, RCRA Drum Storage Pad Closure - Bloomington, IL
Environmental Scientist
Environmental scientist responsible for environmental assessment and remediation oversight for an active RCRA storage facility. Reviewed site history and conducted soil sampling to verify existing site data and to determine contaminants and areas of concern. Due to the history of releases over a period of several years, four contaminants of concern were found to exceed cleanup objectives beneath portions of the concrete pad. Provided oversight for the decontamination and removal of the 50-ft x 5-ft concrete storage pad and approximately 400 cubic yards of soil which were stabilized on-site and transported off-site for disposal at a RCRA permitted hazardous waste disposal facility. Collected confirmation samples and prepared closure report for submittal to the Illinois EPA.

City of Joliet, Joliet Multimodal Facility - Joliet, IL
Technical Manager
Technical manager for environmental issues related to development of a new Multi-Model Transportation Center in downtown Joliet. Providing management of multiple Preliminary Environmental Assessment (PESA), Preliminary Site Investigation (PSI), and CCDD investigations for various locations associated with the project. Work includes assessment of Recognized Environmental Conditions as defined by ASTM 1527 and determination of the level of risk for the presence of regulated substance

and environmental hazards within the project area. Responsible for planning and implementing investigations to identify and characterize soil conditions that may need to be addressed or managed during site construction and redevelopment. Prepared recommendations regarding contaminated soil management including identifying the location of materials that should be classified as either special waste, hazardous waste, or clean construction and demolition debris.

Chicago Transit Authority (CTA), North Main Line Stations Renovation Projects - Chicago, IL

Project/Technical Manager

Mr. Suda served as Project/Technical manager for environmental, safety, and material testing services performed for a $72 million eight station renovation contract. Work included interior and exterior building and track renovations at each station. Responsibilities including planning and implementation of environmental testing for hazardous building materials, implementation of exposure assessments for respirable dust and silica, oversight of lead-based paint abatement, and management of safety consulting and construction material testing services.

Illinois State Toll Highway Authority (ISTHA), I-294/I-57 Interchange Clean Construction and Demolition Debris Management – Cook County, IL

Senior Scientist

Mr. Suda served as the lead environmental scientists to implement field studies and analytical testing to determine management requirements for potential environmental contamination associated with potentially impacted properties (PIPs) within the planned construction limits. Work was completed in accordance with Tollway Construction Bulletin 13-01 and included preparation of CCDD determination letters.

Weston Environmental Solutions, Illinois Department of Transportation (IDOT), District 1 Hazardous Waste Assessments - Various Locations, IL

Project/Technical Manager

Mr. Suda served as Project and Technical Manager for subconsultant services to Weston Environmental Solutions to provide Preliminary Site Investigation (PSI) services for projects throughout IDOT District 1. Services include development of field exploration and testing program plans, drilling and laboratory testing, and preparation of PSI reports. Develop field sampling and analysis plans based on reviews of Preliminary Environmental Site Assessment (PESA) reports developed by others. Lead preparation of the PSI reports used to determine environmental impacts to soil and groundwater and/or sediment in the project area, and to evaluate how these impacts may affect proposed construction activities and/or land acquisition. Reports include cost estimates to excavate, transport, and dispose of the contaminated material, and special provisions for managing the contamination including pay items and quantities

Minnesota Department of Transportation, Phase I Hazardous Materials Assessment, US 10 Between Sunfish Lake Boulevard and Ramsey Boulevard - Ramsey, MN

Project Scientist/Technical Lead

Responsible for completion of a Phase I Hazardous Waste Assessment of the 2.6-mile project corridor to obtain information regarding present and past land use, and to evaluate the potential for contamination in areas that may be acquired and/or disturbed by the planned roadway reconstruction project. The assessment was prepared to support requirements of the National Environmental Policy Act (NEPA) process and state environmental review process. Provided direction for field data and document

collection efforts as well as direction for preparation of the assessment document. Responsible for the rank/classification of the properties (high, medium, low potential for contamination) and the rationale for the ranking/classification. Classified a total of 83 sites of documented or potential contamination within the study area. Led a pre-work activity meeting with MnDOT representatives to establish expectations for the project and executed the work in accordance with the established guidance.

Research Technology International, SRP Investigation and Site Closure - Lincolnwood, IL

Project Manager

Project Manager responsible for the overall planning and execution of investigations and reporting to support issuance of a focused No Further Remediation letter from the Illinois Environmental Protection Agency for an approximate 2.4-acre parcel (including a 50,000 square foot manufacturing building) in Lincolnwood, Illinois. Current and historic use of the property included the assembly and testing of a variety of electronic equipment including CD/DVD/video inspection and repair equipment and film cleaning equipment. Concerns at the site included the former use and handling of hazardous substances (e.g., printing inks and solvents) and wastes and the presence of an inactive heating oil UST beneath the building. Provided direction for the preparation of a comprehensive site investigation report and a technical / completeness review based on regulatory requirements for the report. Mr. Suda interfaced with the client to develop an approach to obtain concurrence from the Illinois EPA on the adequacy of investigations completed to date.

Northrop Grumman Corporation - Commercial Property Hazardous Material Survey - Rolling Meadows, IL

Project Manager

Project Manager for an asbestos survey and mold contamination study of an approximately 115,000 square foot steel frame building located in Rolling Meadows, Illinois to support negotiation of a lease agreement. Based on the client's needs, developed the project scope and provided management level direction and oversight for the project. Assisted in a reconnaissance of the subject property to identify suspect asbestos-containing material and collection of airborne and wipe samples for mold analysis. A total of 28 samples of potential asbestos-containing materials were collected for laboratory analysis. Assisted in the collected of samples for mold analysis from various locations throughout the building to assess the presence of surface and airborne contamination. Established fungal contamination or lack of contamination in the building using fungal organism counts (establishing quantity) and organism typing (establishing specific species). Results of the asbestos analysis did not indicate the presence of asbestos in the building. The presence of mold requiring abatement was found to be isolated to the restroom and shower facilities, and associated air ventilation system.

Wisconsin Department of Transportation, Phase I Hazardous Materials Assessment, USH 18 - Waukesha County, WI

Project Scientist/Technical Lead

Responsible for implementation of a Phase I Hazardous Materials Assessment (HMA) of the project area (1,000 feet along USH 18 and 500 feet each way along the Kossow and Barker crossroads) to obtain information required to determine the potential for contamination within the proposed State of

Wisconsin Department of Transportation (WisDOT) project limits, address potential environmental liability, and evaluate the need for both further environmental investigation and the incorporation of special provisions into the construction contract. The Phase I HMA was performed in accordance with the WisDOT Facilities Development Manual (FDM), Procedure 21-35-5 for Phase I Hazardous Materials Assessments.

Chicago Department of Aviation (CDA), O'Hare Air Reserve Station, Environmental Remediation Program Management - Chicago, IL

Project Scientist/Technical Lead

Responsible for implementation of multi-phased investigations at the O'Hare Air Reserve Station to address environmental concerns identified across the approximate 352-acre active military installation required to support transfer of the property by the U.S. Air Force to the City of Chicago. Investigations were conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERLA) under the oversight of U.S. Environmental Protection Agency (USEPA) Region 5 and Illinois EPA. Led site investigation activities including assessment of soil and groundwater conditions to determine the presence and nature of contamination at approximately 70 potentially contaminated areas. Evaluated the resulting data to support Finding of Suitability to Transfer (FOST) / Finding of Suitability to Lease (FOSL) documents and to identify specific areas requiring further investigations. Results of the investigations identified approximately 20 areas, along with 11 existing Installation Restoration Program (IRP) sites, requiring further investigations. Led subsequent remedial investigation (RI) activities to characterize the nature and extent of contamination, identify contaminants of concern, determine the fate and transport characteristics of contaminants, perform human health and ecological risk assessments, and support a decision for no further action or selection of corrective measures.

University of Illinois at Chicago (UIC), Urban Fill Management - Chicago, IL

Project Manager/Scientist

Responsible for the characterization and management of subsurface soil/fill conditions for redevelopment of an approximate 12-acre parcel for mixed residential and commercial use. Developed an investigation program and provided direction for investigations to assess the presence of regulated compounds in the subsurface due to the presence of ash and cinders as remnants of the Chicago fire of 1871 and the historic use of coal as domestic and industrial fuel on the site. Evaluated available site data to assess the contaminants potential impacts on planned construction and future use of the site. Directed the sampling of subsurface soil/fill from 26 test pits distributed across the site. Interpreted the resulting analytical data to delineate the areas and depths of materials requiring management as special waste. Developed recommendations to protect construction workers from potential hazards associated with contaminated soils encountered during construction. Developed an approach to characterize surplus materials to be removed from the site to provide for proper waste disposal.

Vulcan Materials Corporation, Vulcan Lakes Recreational Area Imported Soil Management Plan, IL

Project Manager/Scientist

Project Manager and Technical Lead for development of a sampling and management plan for 50,000 cubic yards of soil to be placed as fill on the existing recreational area. In consultation and coordination with the client and the Illinois Environmental Protection Agency, Mr. Suda developed a sampling approach

to verify that the imported fill material to be placed on the recreational area will meet appropriate standards for future use of the property. He also developed procedures for inspection of material as the time of delivery to verify suitability for placement at the site.

Confidential Developer, Environmental Services to Support New High-Rise Construction - Chicago, IL

Project Manager/Scientist

Project Manager provided environmental management services for surplus fill materials generated during construction of a residential high-rise building in downtown Chicago. Provided direction and oversight of field engineers who performed continuous field monitoring during earthwork by visually classifying soil/fill material excavated at the site. Developed a procedure for management of surplus materials generated during earthwork, considering applicable federal and state laws and regulations. Provided direction for the characterization of materials encountered that were not suitable to be managed as clean construction and demolition debris. Based on the characterization data, coordinated the permitting and disposal of contaminated materials at a local licensed landfill. Interfaced with the owner and contractor to develop a cost-effective approach to manage the various waste materials generated throughout the construction process.

Village of Riverwoods, Hoeffelder Landfill Property Redevelopment – Riverwoods, IL

Project Scientist

Project Manager and Technical Lead for preparation of an Environmental Assessment and Preliminary Site Development Planning Report for the former 37.6-acre municipal landfill located in Riverwoods, Illinois. Mr. Suda completed a review of historical aerial photographs and available documents prepared during earlier attempts to develop the site. The document review was conducted to prepare a comprehensive understanding of environmental conditions affecting development of the site and to identify the needs for additional information that would serve as a basis to further assess these conditions. Prepared a description of the history of the site and surrounding properties, including historical land use, environmental assessments, and geotechnical investigations.

Outlined currently known information about the former landfill and surrounding properties, and identified additional information needed to better assess environmental risks, develop environmental protection/control systems, and develop solutions for geotechnical design issues. Based on the resulting information, assisted in the development of preliminary considerations for development of building foundations, underground utilities, and surface pavement. Identified potential concerns with landfill gas, leachate migration and potential groundwater contamination, and subsurface soils/fill. Developed recommendations for additional investigations to identify the horizontal and vertical waste extents, leachate impacts and geological conditions beneath the former landfill and surrounding properties. Developed recommendations for geophysical surveys to identify the horizontal extent of waste, assess the possible presence of buried drummed wastes, and provide possible information on contaminant migration pathways. Prepared a subsurface drilling and sampling plan to characterize the landfill base elevation and material type, obtain depths and locations of highly permeable geologic units (sand and gravel layers), install gas probes, and evaluate hydrogeological conditions.

Environmental Compliance

Illinois DOT, Circle Interchange Reconstruction Ambient Air Monitoring Program, - Chicago, IL

Project Manager

Served as Project Manager for planning and implementation of a program to monitor ambient air quality throughout the 5+ year effort to reconstruct the mainline roadway and ramps on this major urban interchange in downtown Chicago. The work included preparation of an Ambient Air Quality Monitoring Plan, collection of field and laboratory data, and data interpretation and reporting. Monitoring for PM10 and PM2.5 was conducted using two tapered element oscillating microbalance (TEOM) 1400a real-time monitors and two Partisol Plus 2025 sequential monitors (for laboratory analysis). The TEOM instruments were operated on a continuous 24/7 basis and samples for laboratory analysis were collected on a weekly basis. Monitoring data were reviewed on a continuous basis against established seeming criteria and exceedances were reporting to the construction management team for review and modification of construction work practices as appropriate. Prepared weekly and monthly summary reports for submittal to IDOT and the Construction Manager.

Chicago Department of Aviation (CDA), Chicago O'Hare International Airport and Chicago Midway International Airport, Environmental Compliance Management Systems - Chicago, IL

Project Scientist

Provided full-time programmatic support to ensure regulatory compliance for both airport facilities addressing a range of compliance programs including NEPA, Environmental Response, Industrial Hygiene, Information Systems, Natural & Water Resources, Sustainability, USTs, and Waste Management. The work including reviewing environmental requirements for upcoming capital improvement programs such as terminal and support facility renovations as well as operational and maintenance needs of the facilities. Representative program elements included:

- Preparation of NEPA documents for runway and taxiway improvements, property acquisitions and land releases, and airside service road improvements at Midway
- Development of a Spill Control Plan and Spill Response Guides for Midway
- Development of Universal Waste Management Program for O'Hare and Midway
- Coordination and oversight of emergency spill responses at O'Hare
- Development of an Environmental Management System (EMS) for O'Hare and Midway
- Redevelopment planning including remediation of acquired parcels at Midway

US Army Corps of Engineers, McCook Main Tunnel System – Chicago, IL

Project Manager/Environmental Lead

Mr. Suda supported the General Contractor by providing environmental compliance services during tunnel construction. Services included developing and implementing sampling and analysis plans for tunnel spoils handling and disposal, characterization of settling basin sludge for disposal, monitoring of water discharge to MWRDGC sewer system, groundwater sampling for the presence of environmental contamination and sewage bacteria contamination, and drinking water quality assessment.

Environmental Planning/NEPA

Illinois Department of Transportation (IDOT) and Indiana Department of Transportation (INDOT), Illiana Expressway Tier I EIS - Northwest IN and IL

Senior Scientist

Mr. Suda served as environmental lead to provide analysis of potential special and hazardous waste impacts associated with the proposed 23-mile Illiana Expressway extending from I-55 in Will County Illinois to I-65 in Lake County Indiana. He also provided analysis of potential mineral resource, and energy impacts associated with the project, and provided technical assistance with the water resources studies. His responsibilities also included support for evaluation of alternatives, development of mitigation measures, and overall preparation of the EIS document.

Chicago Department of Aviation (CDA), NEPA Documents- Chicago, IL

Project Scientist

Prepared NEPA documents for runway and taxiway improvements, property acquisitions and land releases, and airside service road improvements at Midway. These included:

- Airside Service Road Rehabilitation: The CDA proposed to resurface the existing airside service road for general airside transportation. The specific construction included asphalt milling and overlay, spot patching, spot curb replacements, drainage repairs, and striping
- Land Transfer: The CDA planned to release certain parcels of land from airport property for the following purposes: 1) to enable the exchange of certain city-owned airport land for other city-owned non airport land contiguous to the airport; 2) to reflect the relocation of certain public roadways for airport redevelopment; and 3) to release certain city owned airport land that is no longer used or needed for airport purposes.
- Parcels 133/134: The proposed project consisted of redevelopment of 2 parcels located in the Runway Protection Zone and Runway Safety Area for Runway 13C-31C. The CDA proposed to redevelop the parcels into landscape area to satisfy the FA RPZ/RSA criteria.
- Runway 13L-31R/31C Hold Pad: The CDA proposed to resurface the existing hold pad for general aviation aircraft.
- Taxiway Y Rehabilitation: The CDA proposed to resurface the taxiway for general aviation aircraft.

Illinois Department of Transportation (IDOT), Chicago to St. Louis High Speed Rail Environmental Studies - Various Locations, IL (2014 - 2015)

Project/Technical Manager

Mr. Suda assisted in the development of the Illinois High Speed Rail Program through preparation of various environmental studies throughout the approximate 250-mile corridor. Completed a Technical Peer Review of a Preliminary Environmental Site Assessment (PESA) prepared by others to assess conformance with Federal Railroad Association (FRA) and Illinois DOT requirements and guidelines. Currently responsible for special/hazardous waste assessment as part of a NEPA Environmental Assessment (EA) document for an approximate 15-mile portion of the corridor extending from Shipman to Godfrey, IL.

Chicago Transit Authority (CTA), Red Line Track Replacement and Station Improvements - Chicago, IL (November 2011 – June 2012)

Project Manager/Technical Lead

Served as project/technical manager for environmental assessment services performed for construction of a temporary station at the intersection of 63rd & Harvard Street. The project site consisted of eleven (11) parcels, covering approximately 2.4 acres of various land uses including right-of-way for the CTA Green Line elevated track, an electrical substation, a vacant "green" area, and vacant lots utilized for car and truck parking. Responsible for implementation of a Preliminary Environmental Site Assessment (PESA) including review of readily available regulatory environmental databases; site-historic information search and reviews; reviewing geological data; performing a site and vicinity reconnaissance; submitting requests for information to city, state, and federal agencies, and reviewing the responses; and preparing a report summarizing the findings and conclusions of the site assessment.

Chicago Department of Aviation (CDA), Consolidated Car Rental Facility, Chicago Midway Airport, $400 Million Facility for Car Rental Company Consolidation - Chicago, IL

Project/Technical Manager

Mr. Suda provided environmental design reviews as part of the construction planning process for a new $400 Million facility to consolidate car rental companies. Provided technical review of an Erosion and Sediment Control Plan, Dewatering Plan, Storm Water Pollution Prevention Plan (SWPPP), Waste Management Plan, Soil Management Plan, Decontamination Plan, and Indoor Air Quality Plan. Provided direction on the content and expectation of the plans, provided technical reviews, and worked with the contractor to provide documents that addressed the regulatory compliance needs for the project.

Ft. Dearborn U.S. Army Reserve Center, NEPA Document - Chicago, IL

Project Manager/Technical Lead

Responsible for the supervision of a multi-disciplinary team of scientists and engineers to prepare NEPA documentation to support transfer of the Ft. Dearborn U.S. Army Reserve Center (USARC) property from the U.S. Government to the City of Chicago. The NEPA document supported preparation of a Finding of No Significant Impact (FONSI). Lead evaluation of potential impacts of construction related to soils and topography, water resources, air quality, biological resources, noise, land use, parks and recreation, visual resources, cultural resources, transportation, stormwater management, utilities, solid and hazardous waste, and public services.

Southern Electric Co., Proposed Power Generating Station, Fatal Flaw Analysis and Preliminary Engineering - Danville, VA

Project Scientist

Assessed potential environmental fatal flaws associated with development of an 870-MW natural gas fired power plant on an approximate 71-acre parcel in a zoned industrial park. The evaluation considered environmental aspects of the project related to permittability, water availability, and constructability. Managed studies to evaluate potential noise impacts to the surrounding community and the identification of wetlands within the project area. Led investigations to assess potential contamination issues and geotechnical conditions within the project area.

Southern Electric Co, Proposed Power Generating Station, NEPA Documentation - Danville, VA
Project Scientist
Supported completion of an Environmental Assessment (EA) to support construction of an 870-MW natural gas fired power plant on an approximate 71-acre parcel in a zoned industrial park. The EA was prepared to assist the State Corporation Commission (SCC) in meeting its obligation to assess environmental impacts from electric utility facilities under the State Code of Virginia §56-46.1. Directed efforts to prepare the EA document which included a description of the project, the environmental setting, and an evaluation of the environmental effects related to construction and operation of the proposed facility. Led evaluation of potential impacts to air quality, geology and geologic resources, water resources, biological resources, parks and other recreational resources, land use and zoning, and noise.

Illinois Department of Natural Resources, Creek Rehabilitation Planning - Various Counties, IL and IN
Project Manager/Technical Lead
Responsible for implementation of an environmental assessment for reaches totaling over 50 miles of the Iroquois River, Sugar Creek, and Langan Creek in preparation for planned stream rehabilitation activities. The assessment included extensive (40+) interviews; reviews of federal and state environmental records sources, ASTM Standard historical sources, recorded land title documents, physical setting sources, and visual site inspections. Assisted in the preparation and submittal of planning documents including a report outline, a sample interview questionnaire, and reconnaissance methodology and provided technical review of all deliverables.

Low-Level Radioactive Waste Disposal Facility Siting, IL
Project Geologist
Project Geologist/Hydrogeologist for a study of the siting criteria for a low-level radioactive waste disposal facility in Illinois. Mr. Suda reviewed exclusionary and performance/non-performance favorability criteria and the basis and suitability of discretionary factors used in previous siting efforts to identified possible alternative siting criteria and/or quantitative factors that may be applied to existing criteria. He reviewed the potential impacts of these alternative criteria on the siting process in Illinois. Assessed whether the alternatives would be likely to provide more site options for consideration and/or would provide costs benefits to outweigh any adverse impacts. Siting criteria reviewed included water quality/resources, hydrogeology, hydrology, geology, land use, protected species, site location, and demographics.

CVG SIDOR, Steel Mill Environmental Audit - Venezuela
Project Scientist
Project Geologist for environmental site characterization and compliance assessment as part of a comprehensive environmental audit for a 3,000-hectare, active steel mill with an annual production capacity of over 3-million metric tons. Assisted in identification of waste sources (e.g., air emissions, industrial and sanitary wastewater, solid and hazardous wastes, storm water), led development and implementation of an exploration and testing program to characterize environmental impacts, and developed removal measures for implementation by investors under a privatization scheme. Mr. Suda

conducted a visual inspection of the facility to identify areas requiring assessment to evaluate the presence and magnitude of contamination resulting from facility operations, including an existing landfill, oil sludge disposal pits, PCB storage areas, gasoline fueling station, gas plant waste pit, sedimentation lagoon, stormwater discharge lagoons, and fire protection training area. He assisted in the compilation of review of applicable U.S. and Venezuelan environmental regulations used to determine non-compliance.

Southern Electric Co., Proposed Natural Gas-Fired Power Generating Station, Environmental Due Diligence - Rockdale, IL

Project Manager/Scientist

Project Geologist to support development of an approximate 500-MW natural gas-fired power plant on an approximate 66-acre undeveloped industrial site. Mr. Suda was responsible for the completion of a Phase I Environmental Site Assessment (ESA) and geotechnical/environmental investigations to identify and quantify potential environmental liabilities or other concerns that may impact project feasibility and property acquisition. Mr. Suda was part of a multi-disciplinary team to complete the Phase I ESA in accordance with ASTM Standard Practice E1527-97. Principal tasks completed during the Phase I ESA included: a visual inspection of subject property and adjacent properties; review of available data on site history and conditions; review of available federal, state, local, and site records; and interviews with knowledgeable persons to determine past and present uses of the property. In part, the Phase I ESA concluded that the property was historically used as a gravel pit and evaporation/percolation ponds were previously located on the property for the discharge of process wastewater from an adjacent manufacturing facility.

Based on the findings of the Phase I ESA, Mr. Suda assisted in the planning, implementation, and reporting of field investigations completed to provide design recommendations and constructability considerations for the construction of turbines, generators, cooling towers, and support facilities, and to determine the presence and nature of any existing environmental impacts. He developed an integrated field investigation program to characterize the chemical/geotechnical properties of subsurface soils. Investigations included drilling 27 soil borings using hollow-stem drilling methods, collection of continuous samples using split-barrel samplers, installation of shallow piezometers, and laboratory testing of soil samples. Samples were variably tested using ASTM Standard methods to determine soil gradation, moisture content, maximum density, optimum moisture content, and soil plasticity and U.S. Environmental Protection Agency methods to determine contaminant concentrations. Mr. Suda also provided technical assistance in preparation of geologic cross-sections, review of geotechnical test data, and determination of the nature and extent of contamination due to historical property use.

Metra, UP-West Environmental Assessment - Chicago, IL

Project Manager

Leading hazardous waste assessment for expansion of sections of the Metra UP-West Line to add a third mainline track. Work includes comprehensive assessment of potential environmental contamination and includes preparation of an Environmental Assessment Report and associated sections of the Categorical Exclusion/EA documents.

Southern Electric Co., Environmental Documentation, Proposed Power Plant - Danville, VA

Project Scientist

Technical Lead for completion of an Environmental Assessment (EA) to support construction of an 870-MW natural gas fired power plant on an approximate 71-acre parcel in a zoned industrial park. The EA was prepared to assist the State Corporation Commission (SCC) in meeting its obligation to assess environmental impacts from electric utility facilities under the State Code of Virginia §56-46.1. The EA provided a description of the project, the environmental setting, and an evaluation of the environmental effects related to construction and operation of the proposed facility. Led and/or assisted in the evaluation of potential impacts to air quality, geology and geologic resources, water resources, biological resources, parks and other recreational resources, land use and zoning, and noise.

Identified potential impacts to water resources due to construction activities and increased demand for potable uses. The EA considered physical disturbances or material releases that could degrade the quality of water of the underlying aquifer, nearby water supply wells, and adjacent surface water bodies. Concluded construction of the proposed facility and would have no effect on local aquifer recharge or water quality. Recognized temporary increases in water use that would coincide with construction activities for dust suppression, cement preparation, and other constriction related uses. Temporary and long-term increases in potable water requirements were quantified. The EA concluded that no significant negative environmental consequences were identified, and potential adverse environmental impacts could be mitigated. It was also demonstrated that the proposed project would provide significant economic benefits and enhance power reliability with minimal environmental effects.

Southern Electric Co., Proposed Power Generating Station, Fatal Flaw Analysis and Preliminary Engineering, Danville, VA

Project Scientist

Project Scientist to evaluate environmental fatal flaws to support development of an 870-MW natural gas fired power plant on an approximate 71-acre parcel in a zoned industrial park. Evaluated various environmental aspects of the project related to permittability, water availability, and constructability. Managed studies to evaluate potential noise impacts to the surrounding community and the identification of wetlands within the project area. Led investigations to assess potential contamination issues and geotechnical conditions within the project area. Performed an extensive literature review to assess potential geologic hazards such as earthquakes, sinkholes, caves, mines, and slope stability issues that are known to occur in the region. Evaluated potential water sources for the project including groundwater and discharge from the local POTW. Consulted with the local U.S. Fish and Wildlife Service office, the Virginia Department of Game and Inland Fisheries, and the Virginia Department of Conservation and Recreation regarding the presence of threatened and endangered species, as well as the State Historic Preservation Office regarding historical resources potentially affected by the project.

Illinois State Toll Highway Authority (ISTHA), Environmental Evaluation Document, Northwest Tollway (I- 90)/Interstate *39 (I-39) Interchange* – Cherry Valley, IL

Technical Reviewer

Provided technical and editorial review of the draft Environmental Evaluation Document (EED) prepared

for reconstruction of the I-90/I-39 interchange in Cherry Valley, Illinois. Verified completion of coordination with appropriate federal, state, and local agencies with regulatory responsibility and jurisdictional authority. Provided technical comments covering a broad range of issues including wetlands, landscape and native vegetation preservation, tree and vegetation replacement, sensitive receptors, property acquisition, noise reduction and management, and lighting.

NPDES - SPCC

Illinois Tollway – General Engineering Consultant (2017 – 2020)
Erosion Control and NPDES Compliance Lead
Served as the NPDES Stormwater Compliance and Erosion Control Lead. He served as the main point of contact for Designers and Construction Managers for project-related erosion & sediment and NPDES compliance technical matters. As part of his design responsibility, he developed new specifications, details, and guidance materials related to erosion and sediment control including annual updates to the Illinois Tollway Erosion and Sediment Control-Landscape Design Criteria Manual. He also worked with Designers to identify issues and develop recommendations to mitigate impacts to stormwater quality. He was the technical lead for the Tollway's Independent Erosion Control Inspection Program and supported issue resolution and enforcement. He was also responsible for implementation of the NPDES Compliance Program for Tollway Maintenance Facilities throughout the entire system including monitoring and evaluating BMPs to ensure regulatory compliance including assessment and elimination of potential illicit discharges. Completed reviews of assessments to document the effects of Tollway projects on wetlands, biological resources, public lands, Waters of the U.S., cultural resources, and solid waste.

Lake County Division of Transportation, Rollins Road Seepage Assessment - Round Lake Beach, IL
Senior Scientist
Completed an independent review of provided environmental documents to render a professional opinion on the nature of seeps observed on the embankment at 805 E. Rollins Road and the potential association with a leaking underground storage tank (LUST) formerly located within the area. In particular, an opinion was requested as to whether the seepage represents an illicit discharge under their NPDES MS4 permit. Reviewed various environmental study reports completed as part of the planning for the grade separation of Rollins Road and the CN Railroad at Illinois Route 83 and the analytical testing data collected by the County. In addition, conducted a visual reconnaissance of the area including the locations of the reported seeps. Concluded that the sheen observed on the seeps is considered to be natural in its occurrence due to the oxidation of iron by bacteria and that no further action is required to investigate or address the matter with regard to a potential illicit discharge.

Illinois State Toll Highway Authority (ISTHA), I-90 Jane Addams Memorial Tollway (I-90) and I-294 Corridor - Multiple Counties, Northeastern, IL
Project Manager/Technical Lead
Supporting ISTHA to ensure that selected construction projects on I-90 Jane Addams reconstructions project and the I-294 corridor are compliant with applicable federal, state, and local environmental regulations and requirements including National Pollutant Discharge Elimination System (NPDES) permits. In total, more than 25 contracts are currently being inspected. Serving as the I-294 corridor

environmental manager functioning as the single point of contact to construction management teams and Tollway personnel for environmental issues. Responsibilities include responding to requested for information, providing status updates and field inspection reports, leading the development of alternative erosion and sediment control measures, and assisting with regulatory agency inquiries and inspections.

Illinois State Toll Highway Authority (ISTHA), Open Road Tolling, Environmental Compliance & Construction Inspection Services – Multiple Counties, Northeastern, IL

Project Manager/Technical Lead

Supported ISTHA to ensure that construction projects system-wide were compliant with applicable federal, state, and local environmental regulations and requirements including National Pollutant Discharge Elimination System (NPDES) permits. Responsible for conducting erosion and sediment control inspections on a range of projects including bridge replacements, roadway widening and reconstruction, culvert repairs and replacements, and the new Interstate I-355 South Extension. Responsibilities also include providing guidance on solving identified erosion and sediment control problems through coordination with contractors and resident engineering staff. Coordinated with U.S. Army Corps of Engineers and Illinois EPA staff to address issues that arose during construction.

Illinois Department of Transportation (IDOT), District-Wide NPDES Compliance Audit – IL

Project Manager/Technical Lead

Responsible for the overall execution of a contract to assess the compliance status of the District 1 NPDES construction program. Work involved field inspections and documentation reviews to assess overall compliance, deficiencies, and positive attributes of the program. Evaluated field conditions and inspection documentation maintained by IDOT personnel to develop recommendations to enhance the current program. Prepared monthly technical status reports to document field conditions over the 1-year inspection period and led preparation of an Audit Report based on inspections. Coordinated a team of field staff to inspect as many as 30 projects on an ongoing basis prioritized based on construction staging, sensitive receptors, results of prior inspections, and weather conditions.

Illinois Department of Military Affairs, Army Aviation Support Facilities NPDES Compliance Monitoring - IL

Project Manager/Technical Lead

Responsible for the overall execution of a contract to implement the NPDES compliance monitoring program for each of the four (4) Army Aviation Support facilities in Illinois. Baseline monitoring required the collection of four quarterly rounds of benchmark samples during the quarterly site inspections. In conjunction with the baseline monitoring for the first year the facilities remain under permit coverage, conducted Quarterly Visual Observations of Discharges. Prepared and submitted quarterly and annual reporting in compliance with the General NPDES Permit No. ILR00.

Illinois Army National Guard, Storm Water Pollution Prevention Plan, IL061 Area Maintenance Support Activity (AMSA) Facility #45 - Orland Park, IL

Project Scientist

Project scientist for development of a Storm Water Pollution Prevention Plan (SWPPP) to meet the requirements of Illinois General National Pollutant Discharge Elimination System (NPDES) Permit #ILR00

issued by the Illinois Environmental Protection Agency (IEPA). The present and recent activities conducted at the facility included maintenance and cleaning of vehicles, weapons repair and storage, and equipment storage. Operations at the facility included loading, shipping, and receiving small quantities of petroleum, oils, lubricants (POL) and hazardous materials. Prepared the SWPPP to provide a regulatory background description, facility description information (history, general facility description, site drainage areas, industrial activities, outfalls, water bodies) as well as a description of the storm water monitoring program, summary of potential pollution sources, significant spills, and identification of non-stormwater discharges. Based on the site data and information, identified, and described BMPs to mitigate potential stormwater pollution.

Illinois Army National Guard, Oil/Water Separator Engineering Study, IL061 Area Maintenance Support Activity (AMSA) Facility #45 - Orland Park, IL

Project Scientist

Supported evaluation of the condition of the multiple oil/water separators at the facility including determining their location, condition, maintenance/upgrade requirements, system connections, discharge location, permits for operation, and potential environmental liabilities. The study involved interviews of facility staff, cleaning, and visually inspecting the separators, and flow and dye tests.

City of Chicago Department of Fleet Management (DFM), SPCC Plans - Chicago, IL

Project Manager/Technical Lead

Project Manager and Technical Lead for completion for SPCC plan updates for 12 maintenance facilities and fueling facilities. Responsible for review of the existing SPCC plans, performing on-site inspection of each facility, conducting the necessary annual inspection for all storage containers and containment areas, revising the existing SPCC plans and training modules as necessary, and having an Illinois Licensed Professional Engineer recertify the plans. The plans and re-certifications are developed to comply with 40 CFR 112 requirements and the MWRDGC Sewage and Waste Ordinance spill plan requirements.

Confidential Developer, Freedom Plaza NPDES Compliance Inspections - Naperville, IL

Project Manager/Technical Lead

Project/Technical Manager for NPDES inspections for construction of the Freedom Plaza project consisting of an approximately 12.73± acre development in Naperville, DuPage County, Illinois. The overall development consists of a hotel and conference center as well as four out lots for future restaurants including a Granite City restaurant. Responsible for conducting and documenting inspections to ensure compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES) General Storm Water Permit and Storm Water Pollution Prevention Plan (SWPPP) developed by others for the project. Coordinate with the contractor to implement corrective actions necessary to ensure permit compliance.

Illinois Institute of Technology (IIT), Campus-Wide SPCC Plan – Chicago, IL

Project Manager/Technical Lead

Responsible for the overall execution of a contract to develop a SPCC Plan for the University campus. The Illinois Institute of Technology (IIT) Main Campus is comprised of over 50 buildings on approximately 120 acres. The campus consists of landscaped grassy areas with paved parking, road, and walking surfaces. Storm water is collected from the site via a system of catch basins, which discharge to the City

of Chicago sewer system, and after treatment, into Lake Michigan. Heating Plant. Designed the SPCC Plan to comply with all of the applicable Oil SPCC planning provisions of 40 CFR Part 112 and covered the more than 4,000 gallons of aboveground oil storage capacity 58,000 gallons of underground oil storage capacity located throughout the campus.

Chicago Midway International Airport, SPCC Plan and Training – Chicago, IL

Project Manager/Technical Lead

Responsible for the overall execution for development of a Spill Control Plan for City-owned and operated facilities at Chicago Midway International Airport including the CDA Lighting Vault, Airport Maintenance Complex, Fire Station, and emergency generators. The purpose of this document was to meet and address the United States Environmental Protection Agency (EPA) requirements for Oil Pollution Prevention, the EPA's Spill Prevention Control and Countermeasures (SPCC) Plan rules and guidance, and the requirements of the Metropolitan Water Reclamation District of Greater Chicago's (MWRDGC) Sewage and Waste Control Ordinance (MWRDGC Ordinance) Slug Control Plan. Assisted in the development of a Release Response Guide that summarized release response procedures for Tenant Fuelers and provided guidance on responsibilities, release notification, release clean up, and post release reporting procedures. Developed training materials for oil handlers including reviews of tanks, oil-filled equipment, mobile fuelers, spill kits, and drains; spill kits and their use; location of spill response plan; and first responder flow chart.

Illinois Department of Transportation (IDOT), Indiana Department of Transportation (INDOT), Illiana Corridor SWPPP and ECP - Northwest IL and IN

Senior Scientist

Mr. Suda served as lead in developing the SWPPP and preliminary Erosion Control Plans associated with the proposed 52-mile Illiana Corridor extending from I-55 in Will County, Illinois to I-65 in Lake County, Indiana.

Illinois State Toll Highway Authority (ISTHA), System-Wide Environmental Compliance & Construction Inspection Services – Various Locations, IL

Senior Environmental Scientist/Project Manager

Supported ISTHA to ensure that construction projects system-wide were compliant with applicable federal, state, and local environmental regulations and requirements including National Pollutant Discharge Elimination System (NPDES) permits. Responsible for conducting erosion and sediment control inspections on a range of projects including bridge replacements, roadway widening and reconstruction, culvert repairs and replacements, and the new Interstate I-355 South Extension. Responsibilities also included providing guidance on solving identified erosion and sediment control problems through coordination with contractors and resident engineering staff. Coordinated with U.S. Army Corps of Engineers and Illinois EPA staff to address issues that arose during construction.

Natural Resources

Illinois Department of Transportation (IDOT), Vegetation Management - Cook County, IL

Project Manager

Task Manager for providing resident engineering services for Illinois DOT's multi-year vegetation

management program for critical IDOT infrastructure components including concrete/steel bridge supports, electrical signal cabinets, paved areas, roadsides, and emergency areas. Provided oversight of field engineers charged with the responsibility for the safe and effective application of selective and non-selective broadleaf herbicides; tree trimming/removal; selective tree clearing, plant inspection at nurseries, placement, and installation; and mulch placement. A secondary component of the work was to identify and report the presence of invasive species such as the emerald ash bore, teasel and thistle

Illinois State Toll Highway Authority (ISTHA), System-Wide Landscaping and Tree Inspections - IL

Project Manager/Scientist

Served as a liaison between construction field personnel and the Tollway's Landscape Architect to address system- wide landscaping issues such as tree and seed selection, planting methods, and planting schedules. Provided field layout of plantings based on conceptual design plans. Conducted nursery inspections to select and tag trees. Monitored planting activities for conformance with specifications. Coordinated with contractors to address construction issues such as plant damage, supplemental watering, improper staking, and other similar conditions. Performed annual fall tree inspections to assess establishment, the presence of physical or insect damage, potential disease, and the need for maintenance activities such as additional mulch or weed removal. Maintained a database of the findings and resolution status/schedule.

Illinois State Toll Highway Authority (ISTHA), Tributary to Jelkes Creek Restoration Plan and Implementation- Kane County, IL

Project Scientist

Provided technical support for preparation and submittal of restoration plan to the U.S. Army Corps of Engineers in response to discharge of fill into waters of the United States. Developed the restoration plan to include removal of the accumulated sediments, planting of wetland plants along the creek banks, and restoration of the creek channel downstream of a 60-inch outlet pipe. Directed the placement of 2-foot nominal diameter broken concrete and smaller stone to create a natural appearing formation with splash points, pools, and flow diversions at the outlet pipe. Paid particular attention to the stability of the riprap and subgrade preparation to prevent washout during high water flows.

Illinois State Toll Highway Authority (ISTHA), Biological Enhanced Storm Water Retention Basin - Kane County, IL

Project Scientist

Provided oversight for the construction of a 7.35 acre biologically enhanced detention basin. Verified grading on the pond to create meandering flow paths, allowing for maximum infiltration and increased sediment removal. Observations also included seeding of the area nearest the pond outlet with wetland and sedge seed mix and the slopes of the pond with low-profile native grasses. Prior to excavation of the pond, directed efforts to minimize the number of tree removals, which were effectively functioning as a visual screen between the roadway and nearby residences.

Illinois State Toll Highway Authority (ISTHA), Hadley Valley Greenway Ecological Restoration - Will County, IL

Project Scientist

Provided owner's representative inspection services for restoration of 285 acres of the Hadley Valley

Preserve along Spring Creek in Will County. Inspected grading and revegetation activities to restore wetland, prairie, and savanna along a 1-mile reach of the creek. Verified work was completed in accordance with approved plans and specifications.

Wisconsin Department of Transportation (WisDOT), Calhoun Road at I-94 Reconstruction, Environmental Management - Waukesha County, WI

Project Scientist

Responsible for oversight of environmental issues during reconstruction of Calhoun Road under Interstate I-94. A critical aspect of this project was protection of Thamnophis butleri (Butler's garter snake), a state-threatened species, which had been observed in the project area. Supervised field engineers monitored snake exclusions barriers on a daily basis. Monitored the removal of swallow nests from the bridge structure, which under the Migratory Bird Treaty Act, had to be removed outside the mating season. Monitored the subsequent installation of netting to prevent further nest building. Verified conformance with a U.S. Army Corps of Engineers Section 404 Permit that required coordination of construction activities around fish spawning blackout periods and implementation of the structure removal/clean-up plan for the bridge structure that crosses Deer Creek. Responsibilities also included maintaining compliance with storm water and erosion controls.

Illinois State Toll Highway Authority (ISTHA), Fiddyment Creek Relocation and Stabilization - Will County, IL

Project Scientist

Monitored construction to relocate and provide for permanent stabilization of the newly constructed creek channel that bisects the I-355 South Extension. Monitored various elements of the work including construction of a temporary stabilized diversion channel, excavation of the new creek channel, subgrade preparation, placement of riprap within the creek bottom and banks, and seeding alongside the creek.

Illinois State Toll Highway Authority (ISTHA), Eastern Massasauga Rattlesnake Habitat Restoration - Cook County, IL

Project Scientist

Supported efforts to minimize, avoid, and mitigate potential impacts to a known Eastern Massasauga habitat in northern Cook County as part of reconstruction of the north Tri-State Tollway. Monitored work conformance with Cook County Forest Preserve District requirements and U.S. Army Corps of Engineers permit conditions. Participated in field surveys to assess the presence or absence of the Eastern Massasauga, provided oversight of the installation of snake barrier, and monitored selective tree and brush removal as part of habitat restoration efforts.

Illinois State Toll Highway Authority (ISTHA), System-Wide Endangered Species Conservation Planning - IL

Project Scientist

Aided in preparation of a system-wide programmatic mitigation and conservation plan outlining procedures for managing the state endangered seaside crowfoot and alkali bulrush encountered during construction. The plan incorporated the results of previous detailed studies of the existing populations and evaluation of potential relocation sites. Prepared the plan outlining mitigation measures (translocation of plants and seed collection for future seeding), translocation site selection and condition

restrictions, translocation methods, seed collection and storage procedures, and plant monitoring and maintenance requirements.

Groundwater Resources

U.S. Coast Guard, Hydrologic Assessment and Feasibility Study Analysis - Sault Ste. Marie, MI
Project Manager/Scientist
Led efforts to determine the cause(s) of the excessive moisture present in the crawlspaces of sixty U.S. Coast Guard single and duplex housing units (37 buildings total) and to identify viable solutions to prevent the recurrence of the existing water intrusion problems. Developed plans and provided oversight of field investigations to obtain information pertaining to the subsurface soil, groundwater, and surface water conditions in the housing area including determining the nature of a reported red-brown precipitate occurring in the crawlspaces. Mr. Suda evaluated the field and laboratory data to estimate water volumes to be managed as part of potential remedies, groundwater flow directions, groundwater elevation fluctuations, and to determine the nature of the precipitate. Concluded the apparent cause of the water infiltration problems to be a result of several factors including 1) the presence of naturally high groundwater levels, 2) high natural manganese and iron in groundwater due to the wetland environment, 3) groundwater characteristics that favor precipitation of growth of iron bacteria, and 4) limited waterproofing of the existing building foundations.

Assisted in the development and evaluation of engineered alternatives to address the infiltration problems including connection of the building floor drains to the storm sewer system, raising the crawlspace floor, isolating the structures, and lowering the water table. Assisted in the evaluation of the developed alternatives including evaluation of constructability, reliability, and maintenance requirements. Led preparation of a Site Assessment Report that included site background information, a description and summary of site assessment activities, description of all testing results, a discussion of each identified engineered alternative, feasibility study, and recommended engineered alternative(s).

St. Joseph County, Water Supply and Wastewater Management Study - St. Joseph County, IN
Project Scientist
Supported a county-wide study aimed at providing for a safe, reliable, and cost-effective supply of potable water for residents within the County, threatened by elevated levels of nitrates and the presence of coliforms. Assisted in an extensive data search to compile and review available data relevant to hydrogeology and water quality, land use and lot size, municipal water quality, and existing municipal water supply systems. Based on review of the available data, assisted in the development of a plan for supplemental water quality sampling to resolve questions about the location, extent, and severity of existing contamination of the local aquifer system. Selected approximately 240 wells for sampling and most of the wells were re-sampled during a second sampling event to check for seasonal changes in groundwater chemistry. Correlated historic and supplemental water quality data with the data related to soils, hydrogeologic characteristics, land use and other factors to determine conditions that contribute most directly to contamination of the local aquifer. Based on the results of this analysis, assisted in the development of a map that identified critical existing groundwater contamination problem areas, non-critical existing problem areas, areas with high probability of future problems, and areas generally not prone to potential groundwater contamination.

Torrence Avenue Tunnel and Reservoir Project, IL

Project Geologist

As Project Geologist, provided technical oversight for environmental and geotechnical investigations including drilling 44 soil borings in unconsolidated sediments using hollow stem auger and mud rotary drilling; drilling 22 bedrock corings using double tube, swivel-type, UM series core barrels; and completion of 37 steel-cased monitoring wells in bedrock to a maximum depth of approximately 140 feet. Logged each core run with depths, recovery, rock quality designation (RQD), geologic unit, description of color, mineralogy, fractures, weathering, fillings, and other significant features. Mr. Suda specified monitoring well construction details based on site-specific geological conditions. He also developed alternative characterization and disposal options for investigation derived wastes to reduce overall cost to the client.

NUMI Project. Batavia, IL

Project Geologist

As part of the geotechnical investigations for design and construction of tunnels and other subsurface structures planned for the NuMI Project, hydrogeologic investigations were required to evaluate existing natural groundwater gradient, evaluate the hydraulic conductivity of various relevant hydrogeologic units, estimate the radius of influence of the NuMI tunnel, caverns and shafts on the surrounding groundwater regime, and estimate the magnitude of potential seepage inflow into NuMI underground features. As part of the project team, responsibilities included the preparation of a preliminary scope of services for performance of field investigations. Mr. Suda prepared specifications for overburden drilling, sampling, and testing, monitoring well construction, piezometer construction, rock coring and drilling, groundwater sampling, and performance of in-situ hydraulic conductivity tests.

City of Cambridge, Geothermal Well Constructability Review - Cambridge, MA

Project Scientist

Hydrogeologist to evaluate the constructability of a geo-exchange heat pump well system for a planned municipal office building. The project focused on planned construction procedures and specifications to identify and evaluate issues that may influence or interfere with the planned construction. Considered permit requirements, wellhead protection, proximity to potential sources of contamination, site accessibility, well construction details, and drilling/well construction methods as part of the review. Responsible for completion of the review and preparation of a professional opinion on the constructability of the project.

Raccoon Creek Energy Facility, Underground Injection Control Well - Clay County, IL

Project Scientist

Project Hydrogeologist for feasibility analysis of an Underground Injection Control (UIC) well for disposal of cooling water from an approximate 500 MW natural gas-fired power plant in Flora, Illinois. Based on the anticipated operating rates for the facility, it was estimated that 100,000 gallons per day of cooling water would require disposal. To evaluate project feasibility, provided technical review of an evaluation of the hydrogeologic characteristics of the underlying geologic units in the vicinity of the project. The evaluation concluded that a suitable zone for injection of the cooling water might be present at depths between 800 and 1000 feet. Mr. Suda assisted in the preparation of technical specifications for drilling

and testing of an exploratory test boring and construction of the injection well at the target depth. Prepared technical specifications for rock coring, geophysical testing (caliper, gamma ray, resistivity, spontaneous potential, neutron, temperature, and cement bond log), well development, and mechanical integrity testing (pressure testing and injection test). Mr. Suda assisted in the identification and selection of a qualified drilling and well construction contractor. He worked with the selected contractor to develop a cost budget for the project.

Southern Gas & Electric Co., Proposed Natural Gas-Fired Power Generating Station, Water Supply Study - Vigo County, IN

Project Scientist

Project Geologist to support development of an approximate 1200-MW natural gas-fired power plant on an undeveloped site in Indiana. Assisted in evaluation to assess the suitability of the unconsolidated sand and gravel aquifer adjacent to the Wabash River to serve as a potential source for the facility's cooling water. Conducted an initial review of available published geologic and hydrogeologic literature, well logs, and data files specific to the property and surrounding area to assess the characteristics of the aquifer. Based on the information obtained during the literature review, estimated the rate of groundwater available from the Wabash River Valley near the site using the Dupuit-Forchheimer equation. Using conservative estimates for the well diameter, distance to the river, and water column height during pumping, determined the maximum estimated yield for a 16-inch diameter well was about 3 million gallons per day (mgd). Available data suggested large variation in the aquifer thickness and aquifer lithology north from the Wabash River; therefore, preliminary field investigations were recommended to verify the assumptions made during this initial evaluation.

ComEd, Joliet/Lincoln Quarry Ash Landfill, Hydrogeologic Evaluation and Facility Operations Report - Joliet, IL

Project Manager/Scientist

Project Manager and Technical Lead responsible for evaluation and reporting of groundwater flow and facility operations to meet requirements of the groundwater monitoring program for a 57-acre non-hazardous waste landfill. Mr. Suda assisted in the annual evaluation of groundwater flow conditions for the site. Work required preparation of potentiometric surface maps for two bedrock aquifer units. Due to the unique hydrogeologic conditions at the site, primarily controlled by the former dolomite quarry that the landfill is located, water elevation data from 20 monitoring wells and nearby surface water bodies were utilized to characterize groundwater flow. Prepared hydrographs for 20 monitoring wells from two aquifer zones and six surface water bodies. Calculated hydraulic gradients for groundwater flow paths selected to represent different site conditions affected by facility operations, site layout, and the proximity of other rock quarries and surface water bodies to the site. Presented results in a summary report that included a narrative discussion of the findings summarizing potentiometric data, calculated hydraulic gradients, and flow directions illustrated in graphical form. Mr. Suda also assisted in the preparation of the facility's annual report. He prepared narrative discussions to address information relating to monitoring data from the groundwater monitoring network and other monitoring data specified in the operating permit including a summary of monitoring data for the calendar year and changes to the monitoring program.

U.S. Agency for International Development, Pollution Prevention/Waste Minimization Program - Jordan

Project Scientist

Assisted in performance of a Pollution Prevention/Waste Minimization program for petroleum refining, thermal electric power generating, and phosphate mining industries in Jordan. Work included performance of site audits and inspections, feasibility study analyses, and development of demonstration programs. Results of the study were used to assist various industries in assessing pollution problems and identifying alternative solutions/technologies to achieve pollution prevention, water conservation, and wastewater treatment.

ComEd, Joliet/Lincoln Quarry Ash Landfill, Groundwater Compliance Standard Development - Joliet, IL

Project Manager/Scientist

As Project Manager, provided direction and oversight to a multi-disciplinary team to develop groundwater monitoring compliance standards for a 57-acre non-hazardous waste landfill associated with a coal-fired power plant. Work required the development of standards for 13 unfiltered parameters and 16 filtered parameters. In light of an Illinois Pollution Control Board (IPCB) Order granting adjusted standards for the facility, standards for several parameters were developed based on background conditions while other standards were based on sampling data for the area impacted by the facility rather than up gradient conditions. Mr. Suda assisted in the selection of appropriate statistical methods and identification of applicable and relevant monitoring data for the establishment of the proposed standards. He reviewed the IPCB Order and supporting documents to identify criteria that may justify establishing higher standards than those calculated using statistics alone. He also prepared an Application of Significant Modification to address the proposed groundwater compliance standards for submittal to Illinois EPA.

ComEd, Joliet/Lincoln Quarry Ash Landfill, Monitoring Network Expansion - Joliet, IL

Project Manager/Scientist

Project Manager for implementation of the expansion of the groundwater monitoring program for a 57-acre non- hazardous waste landfill associated with a coal-fired power plant. The project included the installation of nine new bedrock monitoring wells to depths ranging from 80 to 205 feet; abandonment of six existing monitoring wells; quarterly sampling of 20 monitoring wells; and preparation of a RCRA Application for Significant Permit Modification to address well installation and abandonment activities. Supervised field hydrogeologists and conducted site visits during drilling and well installation activities. Provided technical guidance and oversight for preparation of an Application for Significant Permit Modification for well installation and abandonment activities submitted to the Illinois EPA.

ComEd, Joliet/Lincoln Quarry Ash Landfill, Groundwater Remedial Action Plan and Groundwater Model - Joliet, IL

Project Manager/Scientist

As Project Manager and Technical Lead, responsible for the development of a groundwater Remedial Action Plan to address background exceedances of groundwater quality at a 57-acre active waste monofil used for the disposal of bottom ash and slag. Mr. Suda conducted a thorough review of previous site investigation reports and other records to develop a basis for the technical feasibility and cost-effectiveness of remedial alternatives. To assess the estimated extent of impacts in adjacent areas, he

reviewed the conceptual model developed for the site, model selection criteria, and the results of the TDAST analytical transport model used to calculate the contaminant concentration at downgradient locations and the GWPATH numerical model used to estimate two-dimensional particle path lines and travel times. Mr. Suda prepared a Remedial Action Plan recommending the control of the local groundwater hydraulic gradient, use of low-sulfur coal, and the off-site management of fly-ash to prevent further contamination of groundwater. He utilized available data to demonstrate the lack of feasibility for retrofitting additional groundwater protective measures within the facility, constructing an additional hydraulic barrier (cutoff wall or slurry wall system), and constructing a pump and treat system due to the facility's unique physical layout, mode of operation, and geologic and hydrogeologic characteristics.

State of Illinois

Department of Financial and Professional Regulation

Division of Professional Regulation

LICENSE NO.
196.000778

The person, firm, or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below:

EXPIRES:
03/31/2025

LICENSED PROFESSIONAL GEOLOGIST

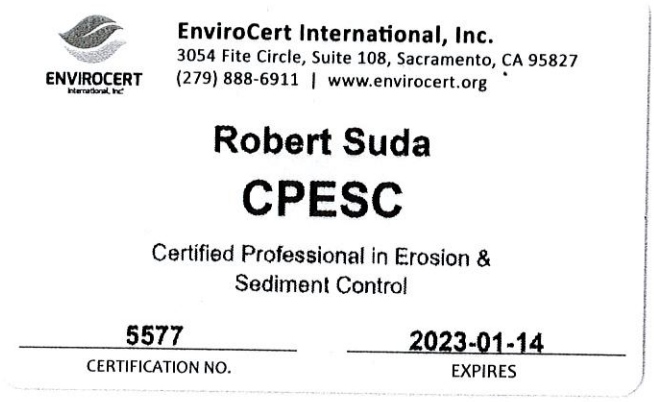
ROBERT W SUDA
ROBERT SUDA
11318 LAVENDER LANE
FRANKFORT, IL 60423

MARIO TRETO, JR.
SECRETARY

CECILIA ABUNDIS
DIRECTOR

The official status of this license can be verified at IDFPR.illinois.gov

17860478


ENVIROCERT
International, Inc
EnviroCert International, Inc.
3054 Fite Circle, Suite 108, Sacramento, CA 95827
(279) 888-6911 | www.envirocert.org
Robert Suda
CPESC
Certified Professional in Erosion &
Sediment Control
5577
CERTIFICATION NO.
2023-01-14
EXPIRES

Lake County Stormwater Management Commission

Certificate of Completion

is hereby granted to

Robert W. Suda

to certify that he/she has completed to satisfaction

Designated Erosion Control Inspector Workshop

4.5 PDHs
4.5 CECs

February 15, 2022

Kurt A. Woolford, P.E., CFM
Executive Director

LAKE COUNTY
STORMWATER MANAGEMENT COMMISSION

Brian L. Frank, P.E., CFM
Chief Engineer

THIS CERTIFICATE ACKNOWLEDGES THAT

ROBERT SUDA

HAS SUCCESSFULLY COMPLETED STORMWATER PERMIT COMPLIANCE TRAINING INCLUDING BUT NOT LIMITED TO FEDERAL, STATE, AND LOCAL GOVERNMENT STANDARDS.

IN RECOGNITION FOR HAVING SUCCESSFULLY COMPLETED ALL REQUIREMENTS OF THE CSI-RE-CERTIFICATION COURSE, NATIONAL STORMWATER CENTER AWARDS THE BEARER A FIVE YEAR CERTIFICATION AND .6 CONTINUING EDUCATION UNITS.

THIS CERTIFICATION INDICATES THAT THE SERVICES CONDUCTED ARE BEING PERFORMED BY A PROFESSIONAL WHO HAS MET THE ESTABLISHED STANDARDS OF KNOWLEDGE, EXPERIENCE, AND COMPETENCE REQUIRED IN THE FIELD OF STORMWATER INSPECTIONS.

Betty J. Stahm, Director of Operations	8466	September 7, 2022
	Certificate Number	Date

NATIONAL STORMWATER CENTER®

Certified Stormwater Inspector
Robert Suda

Successfully completed stormwater permit compliance training including federal, state, and local government standards. This certification indicates that services conducted are performed by a professional who has met the established standards of knowledge, experience, and competence required in the field of stormwater inspections., and whose credentials have been re-certified and validated for an additional five years.

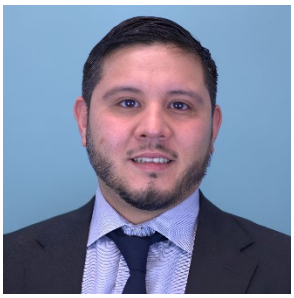
Betty J. Stahm, Director of Operations
National Stormwater Center

Expiration Date: September 2027

This detachable certificate and ID card is for your records and should be kept in a safe location. It is your responsibility to ensure that your certification is kept current and that you meet the requirements for recertification before the expiration date.

Carlos Torres

Carlos Torres CHST, Safety Manager



Mr. Torres has 14 years of experience in construction with the past 11 years specifically concentrated on establishing and administering work practices in compliance with 29 CFR 1926 construction standards. He has developed, trained, and enforced written plans on various aviation, industrial, and oil/ gas sites which included multi-disciplinary teams on projects in various stages of construction. He has proactively provided guidance by writing SSSPs and conferring with department leads prior to breaking ground as well as managing safety personnel on numerous work sites. Mr. Torres has also been responsible for auditing JHAs and performing Root Cause Analyses. Site supervision also consisted of recognizing positive behavior and providing coaching opportunities whenever possible. As an OSHA Outreach Trainer, he has imparted knowledge to a multitude of students over the past 4 years. He has also acted as a liaison for Spanish-speaking workers to provide seamless communication with client directives. He has ensured contractors have conformed with all local, state, and federal regulations in regard to environmental, health and safety standards for all operations.

Education
Walter Payton College Prep (2007)

Experience
Total of 11 years of construction safety experience

Expertise and Specialized Training
29 CFR 1926 (Construction) OSHA Outreach Trainer, CHST, developing/ implementing safety plans (general and site specific). Experience in airport, power plants and oil/ gas pipeline projects in both new construction and operating facilities. Experience with excavations, confined spaces, fall protection, scaffolding, LOTO, concrete demolition/ removal/ installation, HAZCOM, Hazardous Waste Operations and Emergency Response.

Licenses, Registrations & Certifications
Construction Health and Safety Technician (CHST)
OSHA 500 Certified
OSHA 510 Certified
TWIC
CPR/ FA/ AED
40-hour HAZWOPER

Relevant Experience

SHE, LLC- Chicago, IL (February 2022- January 2023)
Safety Consultant
Responsible for creating SSSPs and providing field safety services for clients at O'Hare and Midway International Airports. Safety programs were supplemented with all applicable training and documentation. Clients and projects include Alpine Demolition – removal of T5 pedestrian bridge, McDonagh – South Basin Lift Station, Clune – concession erection, Angelo – concession erection. Common responsibilities included developing training material and delivering field support for high-risk operations. Project tasks included

confined space entry on the airfield as well as work inside the airport terminals and T5 parking lot/ pedestrian walkways which also required an obligation to safeguard the general public.

Safety Director

Analyzed and identified gaps in safety processes for a small contractor with about 50 field employees. Developed SOPs and JHAs for various common tasks. Created and presented a robust safety manual to senior leadership. Created and delivered new hire training programs. Trained existing personnel, including executive leaders, through awareness programs and toolbox talks. Implemented Respiratory Protection Program in compliance with Table 1 of OSHA's Silica Standard. Developed written programs including but not limited to, HAZCOM, Excavations, PITs, Rigging, Sanitation, Confined Space Entry Procedures.

Torres Consulting- Salisbury, NC; Conroe, TX; Bartow, FL- (August 2019- present)

OSHA Outreach Trainer

Instruct (16) OSHA 30-hour courses while adapting to changing local, state, and federal regulations.

Vesta Industrial Contractors- Bartow, FL (March 2020- April 2020)

Safety Manager

Managed safety operations during maintenance work on combined cycle power plant. Acted as a liaison between client leadership and the Spanish speaking workforce of about 40 employees. Led daily safety meetings with laborers and scaffold builders of all skill levels. Procured and assigned PPE as well as training including PFAS. Provided in-field coaching whenever necessary. Maintained proper communication with Duke Energy to ensure compliance with their safety program. Called and administered Safety Stand Downs.

ESS, INC.- Glenville, WV; Lordstown, OH (June 2017- June 2019)

Safety Consultant

Worked with ESS, INC. to provide safety services for client Integrity Kokosing Pipeline Services.
Responsible for oversight of safety program of up to 4 jobsites on an active pipeline. Sites were in rough terrain and were up to 100 miles apart. Coordinated work with superintendents at daily briefings to discuss evolving conditions and proactively address any safety concerns. Reported detailed recordkeeping to management including LOTO and safe work permits. Reviewed and participated in JHAs. Phase 2 of this project consisted of installing a new heavy-wall pipeline in similar terrain. Provided training and coaching to the workforce of mainly laborers, welders and equipment operators.

Safety Manager

Collaborated with a team of 6 safety managers to ensure a safe working environment for up to 800 employees working on new power plant construction. Responsible for maintaining atmospheric monitors used during confined space operations. Trained and assigned roles for confined space entry in my assigned section of the project. Issued and reviewed permits for permit required work (Hot Work, PRCS, Excavation). Demonstrated extensive knowledge of OSHA regulations with various trades performing work throughout project.

Robins & Morton- Miami Beach, FL; Mulberry, FL; Big Island, VA (September 2015- April 2017)

Safety Manager

Co-managed a workforce of 300 employees during the renovation of the Miami Beach Convention Center along with the new construction of its parking structure. Managed 2 Safety Coordinators that assisted in field coverage and coaching opportunities. Provided training to new hires, in-field support and daily briefings for workers and leadership. Provided direction during sudden environmental challenges such as lightning storms, extreme heat and wildlife concerns. Implemented and administered fit-tests during Zika outbreak. Displayed excellent communication skills while working as a sub with multiple contractors on site.

Robins & Morton- Miami Beach, FL; Mulberry, FL; Big Island, VA (September 2015- April 2017)

Safety Coordinator

Provided field support for assigned section of new TECO Power Plant construction. Anticipated and mitigated issues with team of safety professionals and a workforce of more than 1000 employees. Provided daily reports on activities and as well as hazards witnessed and corrected. Participated in and audited JSAs, work permits and toolbox talks. Conducted incident investigations and communicated plans to avoid future occurrences. Maintained accurate records and submitted timely incident/ near miss reports.

Safety Coordinator

Delivered toolbox talks to work crews daily. Provided coaching when possible. Trained over 250 employees on lead and asbestos hazards and controls while working at a 100-year-old paper mill. Inspected and maintained safe work perimeter near operating plant equipment. Reported to Safety Manger while promoting safe and hygienic work conditions. Ensure workers were safely Locked Out and Tagged out when working near energized equipment.

SilverIP- Chicago, Il (September 2011- September 2015)

Safety Tech/ Infrastructure Specialist

Administered a training program for new hires on potential job hazards with a concentration on fall protection and electrical hazards. Much of the work took place on the rooftops of high rises. Provided field support by inspecting multiple, rotating worksites in various stages of completion. Responsible for recordkeeping and auditing daily JHAs and daily field reports.

Board of Certified Safety Professionals

upon the recommendation of the Board of Certified Safety Professionals,
by virtue of the authority vested in it, has conferred on

Carlos Torres Jr.

the credential of

Construction Health and Safety Technician

and has granted the title as evidence of meeting the qualifications and passing
the required examination so long as this credential is not suspended or revoked
and is renewed annually and meets all recertification requirements.

Board President

Board Secretary

March 31, 2023

Date Issued

CHST-17070

Credential Number

The digital badge is the official documentation of the certificate.

Hans Upadhyay

Hans D. Upadhyay, Ph.D., CPG, QA/QC Manager

Dr. Upadhyay is a geologist/ hydrogeologist with over forty-five years of cumulative experience in environmental hydrogeology, hazardous waste management, regulatory compliance programs, mineral exploration, mining, and economic geology. His current responsibilities include providing technical direction and quality management for environmental assessment and remediation programs and assisting in the implementation of SPC's Quality Management System including the development of standard operating procedures for data collection. He is a recognized expert in the field of geology and hydrogeology, having published over 35 papers and technical presentations on the subject at over 30 national and international professional organization meetings. Dr. Upadhyay is also an expert on QA/QC processes and has conducted seminars on the ISO 14000 standards. In addition, he has been interviewed by several prominent magazines and newspapers on a range of environmental issues.

Education
Doctor of Philosophy, Geology - 1973
Memorial University of Newfoundland,
St. John's, NL, Canada

Master of Science, Geology - 1970
Memorial University of Newfoundland,
St. John's, NL, Canada

Experience
Over 45 Years
With this firm since 2007

Professional Societies
American Society for Quality
Geological Society of America

Expertise and Specialized Training
QA/QC Management
Document Control
Regulatory Compliance
Hazardous Waste Management
Laboratory Database Integrity
Benchmarking & Compliance Targets

Licenses, Registrations & Certifications
Licensed Professional Geologist, IL
#CPG-10463
Licensed Asbestos Professional, IL
#1602BIR
OSHA 40-Hour Health and Safety
Training 10-Hour Construction Safety
and Health Training

Relevant Experience

Teachings

ISO 14000, Proactive Environmental Management, and Quality Systems
Instructor
Developed and taught courses on the implementation of the ISO 14000 environmental standards. These standards, released by the Geneva-based International Organization for Standardization (ISO), specify requirements to be met by potential registrants to implement proactive environmental management. Published articles and gave presentations on the integration of Environmental (ISO 14000) and Quality (ISO 9000) Systems. Dr. Upadhyay was interviewed on the implementation of ISO 14000 by two magazines, *International Environmental Systems Update* of Fairfax, VA, and *Quality* of Carol Stream, IL.

Environmental Geology, Field Methods, and Thesis Supervision/Review
Faculty
Taught graduate and undergraduate courses in the areas of environmental geology, geological map interpretation, structural geology, tectonics, economic geology, and field methods at Northeastern Illinois University in Chicago. Field methods courses included an extended stay at geologically important sites to instruct students on mapping, geological equipment usage, rock/soil sampling, and data collection, followed by report writing. Supervised students working on a master's thesis that involved fieldwork, laboratory analysis, data interpretation, and thesis writing.

Chicago Park District (CPD), Environmental Abatement - Chicago, IL
QA/QC Manager
Performed QA/QC work on Lincoln Park Conservatory, Eugene Field Park, and West Pullman Park environmental abatement projects that were subcontracted to SPC by Camp Dresser & McKee, Inc. (CDM). Coordinated with Illinois Department of Public Health (IDPH), contractors, laboratories, and on-site SPC personnel for data-quality and regulatory/contractual compliance. Compared chain-of-custody forms with laboratory data for all Final Clearance Samples for accuracy and quality. Conducted QA/QC review of all Final Reports prior to their delivery to IDPH and/or the Client.

Chicago Public Schools (CPS), Asbestos, Lead, and Hazardous Materials Abatement Projects - Chicago, IL
QA/QC Manager
Prepared QA/QC guidelines and compliance checklists for staff. Reviewed draft reports to assess compliance with Illinois Department of Public Health (IDPH) requirements and those of the client. Held discussions with IDPH, contractor, and laboratory representatives on resolving quality/compliance-related issues. Met with SPC's Project Managers to stay abreast of changing regulations and compliance requirements. Supervised benchmarking, continuous improvement, document control, laboratory database integrity, and corrective-action procedures among SPC personnel. Reviewed Final Reports before delivery to the Client/IDPH.

Chicago Public Schools (CPS), Three–Year Asbestos Re-inspections - Chicago, IL
QA/QC Manager
Coordinated with Illinois Department of Public Health (IDPH), contractors, and SPC field staff during the Three–Year Asbestos Re-inspections of 2010 and 2013. Checked on the accuracy of existing and newly found Homogeneous Areas (HA) at various schools. Supervised the QA/QC process of data-entry into CPS' database for various HAs, their areas, and the amount of asbestos abated. Resolved discrepancies by reviewing previous Three–Year Asbestos Re- inspection reports, Project Manager logs, Supervisor logs, and laboratory data. Supervised preparation of graphics and the process of document control. Conducted QA/QC review of all Final Reports.

Chicago Housing Authority (CHA), Environmental Abatement - Chicago, IL
QA/QC Manager
Coordinated with Illinois Department of Public Health (IDPH), contractor, laboratory, and Project Manager for asbestos/lead abatement activities at the following CHA sites: Dearborn Homes, Altgeld Gardens, LaClaire Courts, and Lawndale Gardens. Implemented SPC's QA/QC procedures throughout the duration of each project. Inspected field logs submitted by contractor Supervisor and SPC's Project Manager. Reviewed laboratory data for general adherence to SPC's QA/QC procedures and for the quality of Final Clearance samples. Reviewed Final Reports for adherence to SPC's QA/QC procedures and for compliance with various regulatory requirements.

Public Building Commission of Chicago (PBC), Environmental Abatement - Chicago, IL
QA/QC Manager
Reviewed documents submitted by the contractor~~(s)~~ for contractual/regulatory compliance prior to the abatement activity. Coordinated among IDPH, PBCC, contractor, and laboratory representatives on QA/QC matters. Examined chain-of-custody documents and laboratory data on Final Clearance samples. Checked for consistency between the daily logs of SPC's Project Manager and contractor's Supervisor. Conducted editorial, technical, and quality review of SPC's Final Reports on asbestos, lead, and hazardous materials abatement. Addressed PBC's comments on Draft Reports prior to their delivery to IDPH/the Client.

California Gulch/Yak Tunnel Superfund Site - Leadville, CO
Geologist/Hydrogeologist
Conducted a technical review of a Remedial Investigation/Feasibility Study (RI/FS) report submitted by the Potentially Responsible Party (PRP) group to assess contaminant impacts associated with a long history of mining activities in the area including use of the 4-mile-long Yak Tunnel used to dewater the mines. Integrated knowledge of mining processes with contaminant hydrogeology and bedrock geology to develop a conceptual site model. Recommended a detailed study of a major fault that was the principal pathway by which impacted waters from the tunnel were entering the surrounding the water table.

Hastings Superfund Site - Hastings, NE
Geologist/Hydrogeologist
Directed Remedial Investigation/Feasibility Study (RI/FS) activities in response to groundwater contamination with Volatile Organic Compounds (VOCs) including 1,1,1-Trichloroethane, Carbon tetrachloride, Chloroform, Toluene, and trichloroethylene, which had affected local drinking water supplies. A total of 111 soil boreholes were drilled, and 40 monitoring wells were installed at the site. Directed well installation, borehole logging, water-level measurement, and water/soil sampling. Responsible for the hydrogeological and geological data interpretation, graphics, and technical report preparation.

Ossineke Superfund Site - Ossineke, MI
Geologist/Hydrogeologist
Responsible for interpretation of soil borehole logs, preparation of geologic and hydrogeologic cross-sections, and preparation of the Remedial Investigation/Feasibility Study (RI/FS) report covering the entire 11-acre site. Responsible for source identification based on interpretation of geologic and hydrogeologic conditions, and analytical data obtained from a series of subsurface investigations including more than 20 monitoring wells. Concluded that groundwater contamination at the site resulted from a series of unrelated spills and incidents including leaking underground storage tanks, accidental fuel spills, and improper handling of dry-cleaning facility wastes.

Paoli Rail Yard Superfund Site - Paoli, PA
Geologist/Hydrogeologist
On behalf of EPA Region 3, conducted a technical document review of a Remedial Investigation/Feasibility Study (RI/FS) report for the site, which included over 1,300 samples collected to evaluate PCB contamination in soil, sediment, surface water, and groundwater. Identified various data gaps including the need for installation of additional monitoring wells to fully assess groundwater flow conditions at the site.

American Institute of Professional Geologists
1333 W. 120th Avenue, Suite 211, Westminster, CO 80234

www.aipg.org aipg@aipg.org

Dr. Hans D. Upadhyay, CPG-10463

Valid Through: December 31, 2023

Dawn H. Garcia, CPG - 2023 AIPG President

ATTACHMENT A
LEGAL ACTIONS

(ATTACHED HERETO AND INCORPORATED HEREIN)

ATTACHMENT A – LEGAL ACTIONS

FIRM NAME Specialty Consulting, Inc.

I. LEGAL ACTIONS

If the answer to any of the questions below is **YES**, you must provide a type-written, brief description, and/or explanation on a separate sheet following this page. Each question must be answered.

Question	Yes	No
Has the firm or venture been issued a notice of default on any contract awarded to it in the last 3 years?	☐	☒
Does the firm or venture have any legally filed judgments, claims (liquidated damages, or other), arbitration proceedings or suits pending or outstanding against the firm or venture or its officers?	☐	☒
If the answer to the preceding question is "Yes", provide the requisite explanation on a separate sheet and include the date(s) of filing with the corresponding dollar amount of claims (or judgments and the contract value of the contract).		
Within the past 3 years has the firm or venture been a party to any lawsuits or arbitration proceedings with regard to any contracts?	☐	☒
Within the last 3 years, has any officer or principal of the firm or venture ever been an officer or principal of another organization that failed to complete any contract as a result of termination, litigation, arbitration or similar matter?	☐	☒
Has any key person with the firm or venture or its predecessor ever been convicted of or charged with any state or federal crime (excluding traffic violations), including but not limited to, embezzlement, theft, forgery, bribery, falsification or destruction of records, receipt of stolen property, criminal anti-trust violations, bid-rigging or bid-rotating?	☐	☒
Has the firm or venture ever been temporarily or permanently debarred from contract award by any federal, state, or local agency?	☐	☒
Within the last 3 years, has the firm or venture been investigated or assessed penalties for any statutory or administrative violations (including but not limited to MBE, WBE, EEOC violations)?	☐	☒
Has the firm or venture ever failed to complete any work awarded to it?	☐	☒

ATTACHMENT B
DISCLOSURE AFFADAVIT

(ATTACHED HERETO AND INCORPORATED HEREIN)

ATTACHMENT B – DISCLOSURE AFFIDAVIT

I. HISTORY AND OWNERSHIP OF RESPONDENT FIRM

Any firm proposing to conduct any business transactions with the Public Building Commission of Chicago must complete this Disclosure Affidavit. Please note that in the event the Contractor is a joint venture, the joint venture and each of the joint venture partners must submit a completed Disclosure Affidavit.

The undersigned Arturo Saenz (Name), as President/Chief Executive Officer (Title)

and on behalf of Specialty Consulting, Inc.
("Bidder/Proposer/Respondent or Contractor") having been duly sworn under oath certifies the following:

RESPONDENT			
Name of Firm:	Specialty Consulting, Inc.		
Address:	2942 W Van Buren St.		
City/State/Zip:	Chicago, IL 60612		
Telephone:	312.319.7575	**Facsimile:**	312.319.7580
FEIN:	36-4525444	**SSN:**	
Email:	asaenz@spc-inc.com		
Nature of Transaction:			

- ☐ Sale or purchase of land
- ☐ Construction Contract
- ☑ Professional Services Agreement
- ☐ Other ____________________

II. DISCLOSURE OF OWNERSHIP INTERESTS

Pursuant to Resolution No. 5371 of the Board of Commissioners of the Public Building Commission of Chicago, all Bidders/Proposers shall provide the following information with their Bid/Proposal. If the question is not applicable, answer "NA". If the answer is none, please answer "none".

- ☑ Corporation
- ☐ Partnership
- ☐ Sole Proprietorship
- ☐ Joint Venture
- ☐ Limited Liability Company
- ☐ Limited Liability Partnership
- ☐ Not-for-profit Corporation
- ☐ Other: ______________

ATTACHMENT B – DISCLOSURE AFFIDAVIT

A. CORPORATIONS AND LLC'S

State of Incorporation or Organization:	Illinois
If outside of Illinois, is your firm authorized to conduct business in the State Of Illinois:	☐ Yes ☐ No
City/State/ZIP:	
Telephone:	

Identify the names of all officers and directors of the business entity.
(Please attach list if necessary.)

Name	Title
Arturo Saenz	President/Chief Executive Officer
Hector Castillo	Director of Architecture
Kwoknam Shiu	Director of Structural Engineering

Identify all shareholders whose Ownership percentage exceeds 7.5% of the business entity.
(Please attach list if necessary.)

Name	Address	Ownership Interest Percentage
Arturo Saenz	2942 W Van Buren St.	100 %
		%
		%

LLC's only, indicate Management Type and Name:

☐ Member-managed	☐ Manager-managed	**Name:**	

Is the corporation or LLC owned partially or completely by one or more other corporations or legal entities?	☐ Yes ☑ No

If yes, please provide the above information, as applicable, for each such corporation or entity such that any person with a beneficial Ownership interest of 7.5% or more in the corporation contracting in the PBC is disclosed. For example, if Corporation B owns 15% of Corporation A, and Corporation A is contracting with the PBC, then Corporation B must complete a Disclosure Affidavit. If Corporation B is owned by Corporations C and D, each of which owns 50% of Corporation B, then both Corporations C and D must complete Disclosure Affidavits.

B. PARTNERSHIPS

If the bidder/proposer or contractor is a partnership, indicate the name of each partner and the percentage of interest of each therein. Also indicate, if applicable, whether General Partner (GP) or Limited Partner (LP).		
Name	**Type**	**Ownership Interest Percentage**
		%
		%
		%
		%
		%

C. SOLE PROPRIETORSHIP

The bidder/proposer or contractor is a sole proprietorship and is not acting in any representative capacity on behalf of any beneficiary:	
If the answer is no, please complete the following two sections.	☐ Yes ☐ No

If the sole proprietorship is held by an agent(s) or a nominee(s), indicate the principal(s) for whom the agent or nominee holds such interest.
Name of Principal(s)

If the interest of a spouse or any other party is constructively controlled by another person or legal entity, state the name and address of such person or entity possessing such control and the relationship under which such control is being or may be exercised.	
Name	**Address**

III. CONTRACTOR CERTIFICATION

A. CONTRACTORS

1. The Contractor, or any affiliated entities of the Contractor, or any responsible official thereof, or any other official, agent or employee of the Contractor, any such affiliated entity, acting pursuant to the direction or authorization of a responsible official thereof has not, during a period of three years prior to the date of execution of this certification:

    a. Bribed or attempted to bribe, or been convicted of bribery or attempting to bribe a public officer or employee of the City of Chicago, the State of Illinois, any agency of the federal government or any state or local government in the United States (if an officer or employee, in that officer's or employee's official capacity); or

    b. Agreed or colluded, or been convicted of agreement or collusion among bidders or prospective bidders in restraint of freedom of competition by agreement to bid a fixed price or otherwise; or

    c. Made an admission of such conduct described in 1(a) or (b) above which is a matter of record but has not been prosecuted for such conduct.

2. The Contractor or agent, partner, employee or officer of the Contractor is not barred from contracting with any unit of state or local government as a result of engaging in or being convicted of bid-rigging[2] in violation of Section 3 of Article 33E of the Illinois Criminal Code of 1961, as amended (720 ILCS 5/33E-3), or any similar offense of any state or the United States which contains the same elements as the offense of bid-rigging during a period of five years prior to the date of Submission of this bid, proposal or response.

3. The Contractor or any agent, partner, employee, or officer of the Contractor is not barred from contracting with any unit of state or local government as a result of engaging in or being convicted of bid-rotating[4] in violation of Section 4 of Article 33E of the Illinois Criminal Code of 1961, as amended (720 ILCS 5/33E-4), or any similar offense of any state or the United States which contains the same elements as the offense of bid-rotating.

4. The Contractor understands and will abide by all provisions of Chapter 2-56 of the Municipal Code entitled "Office of the Inspector General" and all provisions of the Public Building Commission Code of Ethics Resolution No.5339, as amended by Resolution No. 5371.

5. The Contractor certifies to the best of its knowledge and belief, that it and its principals:

    a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal, state or local department or agency.

    b. Have not within a three-year period preceding this bid or proposal been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state or local) transaction or contract under a public transaction; violation of federal or state antitrust statutes; commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property;

    c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any of the offenses enumerated in paragraph (5)(b) above; and

    d. Have not within a three-year period preceding this bid or proposal had one or more public transactions (federal, state or local) terminated for cause or default.

ATTACHMENT B – DISCLOSURE AFFIDAVIT

B. SUBCONTRACTORS

1. The Contractor has obtained from all subcontractors being used in the performance of this contract or agreement, known by the Contractor at this time, disclosures substantially in the form of Section 1, and certifications substantially in the form of Section 2, of this Disclosure Affidavit. Based on such disclosures and certification(s), and any other information known or obtained by the Contractor, is not aware of any such subcontractor or subcontractor's affiliated entity or any agent, partner, employee or officer of such subcontractor or subcontractor's affiliated entity having engaged in or been convicted of (a) any of the conduct described as prohibited in this document; (b) bid-rigging, bid-rotating, or any similar offense of any state or the United States which contains the same elements as bid-rigging or bid-rotating, or having made an admission of guilt of the conduct described in Section 2 which is matter of record but has/have not been prosecuted for such conduct.

2. The Contractor will, prior to using them as subcontractors, obtain from all subcontractors to be used in the performance of this contract or agreement, but not yet known by the Contractor at this time, certifications substantially in the form of this certification. The Contractor shall not, without the prior written permission of the Commission, use any of such subcontractors in the performance of this contract if the Contractor, based on such certifications or any other information known or obtained by Contractor, became aware of such subcontractor, subcontractor's affiliated entity or any agent, employee or officer of such subcontractor or subcontractor's affiliated entity having engaged in or been convicted of (a) any of the conduct described as prohibited in this document of or (b) bid-rigging, bid-rotating or any similar offenses of any state or the United States which contains the same elements as bid-rigging or bid-rotating or having made an admission of guilt of the conduct described as prohibited in this document which is a matter of record but has/have not been prosecuted for such conduct. The Contractor shall cause such subcontractors to certify as to all necessary items. In the event any subcontractor is unable to certify to a particular item, such subcontractor shall attach an explanation to the certification.

3. For all subcontractors to be used in the performance of this contract or agreement, the Contractor shall maintain for the duration of the contract all subcontractors' certifications required by this document and Contractor shall make such certifications promptly available to the Public Building Commission of Chicago upon request.

4. The Contractor will not, without the prior written consent of the Public Building Commission of Chicago, use as subcontractors any individual, firm, partnership, corporation, joint venture or other entity from whom the Contractor is unable to obtain a certification substantially in the form of this certification.

5. The Contractor hereby agrees, if the Public Building Commission of Chicago so demands, to terminate its subcontractor with any subcontract if such subcontractor was ineligible at the time that the subcontract was entered into for award of such subcontract. The Contractor shall insert adequate provisions in all subcontracts to allow it to terminate such subcontract as required by this certification.

C. STATE TAX DELINQUENCIES

1. The Contractor is not delinquent in the payment of any tax administered by the Illinois Department of Revenue or, if delinquent, the Contractor is contesting, in accordance with the procedures established by the appropriate Revenue Act, its liability for the tax or amount of the tax.

2. Alternatively, the Contractor has entered into an agreement with the Illinois Department of Revenue for the payment of all such taxes that are due and is in compliance with such agreement.

3. If the Contractor is unable to certify to any of the above statements, the Contractor shall explain below. Attach additional pages if necessary.

If the letters "NA", the word "None" or no response appears on the lines above, it will be conclusively presumed that the Undersigned certified to the above statements.

4. If any subcontractors are to be used in the performance of this contract or agreement, the Contractor shall cause such subcontractors to certify as to paragraph (C)(1) or (C)(2) of this certification. In the event that any subcontractor is unable to certify to any of the statements in this certification, such subcontractor shall attach an explanation to this certification.

D. OTHER TAXES/FEES

1. The Contractor is not delinquent in paying any fine, fee, tax or other charge owed to the City of Chicago.

2. If Contractor is unable to certify to the above statement, Contractor shall explain below and (attach additional pages if necessary).

If the letters "NA", the word "None" or no response appears on the lines above, it will be conclusively presumed that the Undersigned certified to the above statements.

E. PUNISHMENT

1. A Contractor who makes a false statement material to Section II(A)(2) of this certification commits a Class 3 felony. 720 ILCS 5/33E-11(b).

F. JUDICIAL OR ADMINISTRATIVE PROCEEDINGS

1. The Contractor is not a party to any pending lawsuits against the City of Chicago or the Public Building Commission of Chicago nor has Contractor been sued by the City of Chicago or the Public Building Commission of Chicago in any judicial or administrative proceeding.

2. If the Contractor cannot certify to the above, provide the (1) case name; (2) docket number; (3) court in which the action is or was pending; and (4) a brief description of each such judicial or administrative proceeding. Attach additional sheets if necessary.

If the letters "NA", the word "None" or no response appears on the lines above, it will be conclusively presumed that the Undersigned certified to the above statements.

G. CERTIFICATION OF ENVIRONMENTAL COMPLIANCE

A. Neither the Contractor nor any affiliated entity of the Contractor has, during a period of five years prior to the date of execution of this Affidavit: (1) violated or engaged in any conduct which violated federal, state or local environmental restriction, (2) received notice of any claim, demand or action, including but not limited to citations and warrants, from any federal, state or local agency exercising executive, legislative, judicial, regulatory or administrative functions relating to a violation or alleged violation of any federal, state or local statute, regulation or other environmental restriction; or (3) been subject to any fine or penalty of any nature for failure to comply with any federal, state or local statute, regulation or other environmental restriction.

If the Contractor cannot make the certification contained in the above paragraph, identify any exceptions (attach additional pages if necessary):

If the letters "NA", the word "None" or no response appears on the lines above, it will be conclusively presumed that the Undersigned certified to the above statements.

B. Without the prior written consent of the Public Building Commission of Chicago, Contractor will not employ any subcontractor in connection with the contract or proposal to which this Affidavit pertains without obtaining from such subcontractor a certification similar in form and substance to the certification contained in Paragraph A of this Section III prior to such subcontractor's performance of any work or services or furnishing any goods, supplies or materials of any kind under the proposal or the contract to which this Affidavit pertains.

C. Until completion of the Contract's performance under the proposal or contract to which this Affidavit pertains, the Contractor will not violate any federal, state or local statute, regulation or other Environmental Restriction, whether in the performance of such contract or otherwise.

H. INCORPORATION INTO CONTRACT AND COMPLIANCE

The above certification shall become part of any contract awarded to the Contractor set forth on page 1 of this Disclosure Affidavit and are a material inducement to the Public Building Commission of Chicago's execution of the contract, contract modification or contract amendment with respect to which this Disclosure Affidavit is being executed and delivered on behalf of the Contractor. Furthermore, Contractor shall comply with these certifications during the term and/or performance of the contract.

I. VERIFICATION

Under penalty of perjury, I certify that I am authorized to execute this Disclosure Affidavit on behalf of the Contractor set forth on page 1, that I have personal knowledge of all the certifications made herein and that the same are true.

The Contractor must report any change in any of the facts stated in this Affidavit to the Public Building Commission of Chicago within 14 days of the effective date of such change by completing and submitting a new Disclosure Affidavit. Failure to comply with this requirement is grounds for your firm to be deemed non-qualified to do business with the PBCC. Deliver any such new Disclosure Affidavit to: Public Building Commission of Chicago, Director of Compliance, 50 W. Washington, Room 200, Chicago, IL 60602.

Signature of Authorized Officer

Arturo Saenz

Name of Authorized Officer (Print or Type)

President/Chief Executive Officer

Title

312.319.7575

Telephone Number

State of Illinois
County of Cook

Signed and sworn to before me on this 18 day of July, 2023 by Arturo Saenz (Name) as President/Chief Executive Officer (Title) of Specialty Consulting, Inc. (Bidder/Proposer/Respondent or Contractor)

Notary Public Signature and Seal

OFFICIAL SEAL
MARIA ELENA PEREZ
NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires 9/21/24

ATTACHMENT C
DISCLOSURE OF RETAINED PARTIES

(ATTACHED HERETO AND INCORPORATED HEREIN)

ATTACHMENT C – DISCLOSURE OF RETAINED PARTIES

Definitions and Disclosure Requirements
As used herein, "Consultant" means a person or entity who has any contract with the Public Building Commission of Chicago ("Commission").

Commission bids, contracts, and/or qualification submissions must be accompanied by a disclosure statement providing certain information about lobbyists whom the Consultant has retained or expects to retain with respect to the contract. In particular, the Consultant must disclose the name of each such person, his or her business address, the name of the relationship, and the amount of fees paid or estimated to be paid. The Consultant is not required to disclose employees who are paid solely through the Consultant's regular payroll.

"Lobbyists" means any person who (a) for compensation or on behalf of any person other than himself undertake to influence any legislative or administrative action or (b) any part of whose duties as an employee of another includes undertaking to influence any legislative or administrative action.

Certification

Consultant hereby certifies as follows:

This Disclosure relates to the following transaction(s): PS3080

Description or goods or services to be provided under Contract: Environmental Engineering Services

Name of Consultant: Specialty Consulting, Inc.

EACH AND EVERY lobbyist retained or anticipated to be retained by the Consultant with respect to or in connection with the contract listed below. Attach additional pages if necessary.

Retained Parties:

Name	**Business Address**	**Relationship** (Attorney, Lobbyist, etc.)	**Fees** (indicate total whether paid or estimated)

☑ Check Here If No Such Persons Have been Retained or Are Anticipated To Be Retained

The Consultant understands and agrees as follows:

a. The information provided herein is a material inducement to the Commission execution of the contract or other action with respect to which this Disclosure of Retained Parties form is being executed, and the Commission may rely on the information provided herein. Furthermore, if the Commission determines that any information provided herein is false, incomplete, or inaccurate, the Commission may terminate the contract or other transaction; terminate the Consultant's participation in the contract or other transactions with the Commission.

b. If the Consultant is uncertain whether a disclosure is required, the Consultant must either ask the Commission's Representative or his or her manager whether disclosure is required or make the disclosure.

c. This Disclosure of Retained Parties form, some or all of the information provided herein, and any attachments may be made available to the public on the Internet, in response to a Freedom of Information Act request, or otherwise. The Consultant waives and releases any possible rights or claims it may have against the Commission in connection with the public release of information contained in the completed Disclosure of Retained Parties form and any attachments.

Under penalty of perjury, I certify that I am authorized to execute this Disclosure of Retained Parties on behalf of the Consultant and that the information disclosed herein is true and complete.

Signature

7/18/2023
Date

Arturo Saenz
Name (Type or Print)

President/Chief Executive Officer
Title

Subscribed and sworn to before me

this 18 day of July 2023

Notary Public

OFFICIAL SEAL
MARIA ELENA PEREZ
NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires 9/21/24

ATTACHMENT D
SPECIAL CONDITIONS REGARDING THE UTILIZATION OF MINORITY AND WOMEN OWNED BUSINESS ENTERPRISES FOR PROFESSIONAL SERVICES

(ATTACHED HERETO AND INCORPORATED HEREIN)

ATTACHMENT D

Special Conditions Regarding the Utilization Of Minority and Women Owned Business Enterprises for Professional Services

1. Policy Statement

   a. It is the policy of the Public Building Commission of Chicago ("PBC") to ensure competitive business opportunities for MBE and WBE firms in the performance of Contracts, to prohibit discrimination in the award of or participation in Contracts, and to abolish arbitrary barriers to full participation in Contracts by all persons, regardless of race, sex or ethnicity. Therefore, during the performance of this Contract, the Professional Service Provider must agree that it will not discriminate against any person or business on the basis of race, color, religion, ancestry, age, marital status, physical or mental handicap, unfavorable discharge from military service, parental status, sexual orientation, national origin or sex, in the solicitation or the purchase of goods and services or the subcontracting of work in the performance in this Contract.

   b. The Commission requires the Professional Service Provider also agree to take action to ensure that MBE and WBE firms have the maximum opportunity to compete for and perform subcontracts with respect to this Contract.

   c. The Commission requires the Professional Service Provider to notify MBE and WBE firms, utilized on this contract, about opportunities on contracts without goals.

2. Aspirational Goals

   a. Upon the effective date of these Special Conditions, the Consultant agrees to make a best efforts to attain the aspirational goals to award **25%** of the annual dollar value of all Commission Contracts to MBEs and **5%** of the annual dollar value of all Commission Contracts to WBEs..

   b. Further, the Professional Service Provider must agree to use its best efforts to include MBE and WBE firms in any Contract modification work that increases the Contract value. Where the proposed contract modification involves work which can be performed by MBEs and WBEs already performing work on the contract such MBEs and WBEs will participate in such work specified in the contract modification..

   c. Failure to carry out the commitments and policies set forth in this Program constitute a material breach of contract and may result in termination of the Professional Service Provider or such other remedy, as the Commission deems appropriate.

3. Definitions

   a. For purposes of this Special Condition, the following definitions applies:

      (1) "Certified Minority Business Enterprise" means a person or entity granted certification by the City of Chicago or County of Cook.

      (2) "Certified Women's Business Enterprise" means a person or entity granted certification by the City of Chicago or County of Cook.

      (3) "Construction Contract" means a contract for the construction, repair, alteration, renovation or improvement of any building, facility or other structure.

      (4) "Contract Specific Goals" means the subcontracting goals for MBE and WBE participation established for a particular contract based upon the availability of MBEs and WBEs to perform any anticipated scope of work of the contract and the Commission's progress towards meeting the aspirational goals.

      (5) "Contractor" means any person or business entity that seeks to enter into a Construction Contract with the Commission and includes all partners, affiliates and joint ventures of such person or entity.

      (6) "Established Business" means a person or entity granted certification by the City of Chicago.

(7) "Executive Director" means the Executive Director of the Commission or his/her duly designated representative as appointed in writing.

(8) "Good faith efforts" means actions undertaken by a Contractor to achieve a Contract Specific Goal that by their scope, intensity and appropriateness to the objective can reasonably be expected to fulfill the Program's requirements.

(9) "Joint venture" means an association of two or more persons or entities or any combination of two or more business enterprises and persons numbering two or more, proposing to perform a single for-profit business enterprise, in which each joint venture partner contributes property, capital, efforts, skill and knowledge, and in which the MBE or WBE is responsible for a distinct, clearly-defined portion of the work of the contract and whose share in the capital contribution, control, management, risks and profits of the joint venture is equal to its ownership interest. Joint ventures must have an agreement in writing specifying the terms and conditions of the relationships between the parties and their relationship and responsibilities to the contract.

(10) "Participating Established Business" means an established business which is eligible to participate in the minority- and women-owned business enterprise program set forth in Section 8 below.

(11) "Professional Service Provider" means any person or business entity that seeks to enter into Professional Service Contract with the Commission and includes all partners affiliates, and joint ventures of such person or entity.

(12) "Program" means the minority- and women-owned business enterprise construction procurement program established in this special condition.

4. Determining MBE/WBE Utilization

The methodology for determining MBE and WBE utilization will be determined for purposes of analysis with respect to this contract as follows:

a. The total dollar value of the contract awarded to the certified MBE or WBE firm will be credited to such participation. Only minority business participation may be counted toward MBE participation and only women business participation may be counted toward WBE participation.

b. The total dollar value of a contract with a firm owned and controlled by minority women is counted toward either the MBE or WBE goal, but not both. The Professional Service Provider employing the firm may choose the goal to which the contract value is applied. Various work done by one and the same sub-consultant will be considered, for the purpose of this principle, as work effectively done under one subcontract only, which sub-consultant may be counted toward only one of the goals, not toward both.

c. A Professional Service Provider may count toward its MBE or WBE goal the portion of the total dollar value of a contract with an eligible joint venture equal to the percentage of the ownership and control of the MBE or WBE partner in the joint venture. A joint venture seeking to be credited for MBE participation may be formed among certified MBE and WBE firms, or between certified MBE and WBE firms and a non-MBE/WBE firm. A joint venture satisfies the eligibility standards of this Program if the certified MBE or WBE participant of the joint venture:

(1) Shares in the ownership, control, management responsibilities, risks and profits of the joint venture; and

(2) Is responsible for a clearly defined portion of work to be performed in proportion to the MBE or WBE ownership percentage.

d. A Professional Service Provider may count toward its MBE and WBE goals only expenditures to firms that perform a commercially useful function in the work of a contract. A firm is considered to perform a commercially-useful function when it is responsible for execution of a distinct element of the work of a contract and carries out its responsibilities by actually performing, managing, and supervising the work involved. To determine whether a firm is performing a commercially useful function, the Commission will evaluate the amount of work subcontracted, industry practices and other relevant factors.

e. Consistent with normal industry practices, a MBE or WBE firm may enter into subcontracts. If a MBE or WBE Professional Service Provider subcontracts a significantly greater portion of the work of a contract than would be expected on the basis of normal industry practices, the MBE or WBE will be rebuttably presumed not to be performing a commercially-useful function.

f. A Professional Service Provider may count toward its goals expenditures to MBE or WBE manufacturers (i.e., suppliers that produce goods from raw materials or substantially alters them before resale).

g. A Professional Service Provider may count toward its goals expenditures to MBE or WBE suppliers provided that the supplier performs a commercially useful function in the supply process.

5. Submission of Proposals

a. The following schedules and documents constitute the Proposer's MBE/WBE compliance proposal and must be submitted at the time of the proposal.

(1) Evidence of Certification: Affidavit of MBE/WBE. A copy of each proposed MBE and WBE firm's Letter of Certification from the City of Chicago, Department of Procurement Services or any other entity accepted by the Public Building Commission of Chicago must be submitted. The PBC accepts certification by the City of Chicago, and County of Cook.

(2) Schedule B: Affidavit of MBE/Non-MBE or WBE/Non-WBE Joint Ventures. Where the Proposer's MBE/WBE compliance proposal includes participation of any MBE or WBE as a joint venture participant, the Proposer must submit a "Schedule B: Affidavit of MBE/Non-MBE or WBE/Non-WBE Joint Venture" with an attached copy of the joint venture agreement proposed among the parties. The Schedule B and the joint venture agreement must clearly evidence that the MBE or WBE participant will be responsible for a clearly defined portion of the work to be performed and that the MBE or WBE firm's responsibilities are in proportion with its ownership percentage.

(3) Schedule C: Letter of Intent to Perform as a sub-consultant, Subconsultant, or Material Supplier, Schedule C, executed by the MBE/WBE firm (or Joint Venture sub-consultant) must be submitted by the Proposer for each MBE/WBE included on the Schedule D. Schedule C must accurately detail the work to be performed by the MBE or WBE firm and the agreed rates and prices to be paid.

(4) Schedule D: Affidavit of Prime Professional Service Provider Regarding MBE or WBE Utilization. A completed Schedule D committing to the utilization of each listed MBE or WBE firm. Unless the Proposer has submitted a completed request for a waiver of participation by MBE/WBE firms (See Request for Waiver procedures in Section 7), the Proposer must include the specific dollar amount or percentage of participation of each MBE/WBE firm listed on its Schedule D. The total dollar commitment to proposed MBE firms must at least equal the MBE goal, and the total dollar commitment to proposed WBE firms must at least equal the WBE goal. Proposers are responsible for calculating the dollar equivalent of MBE or WBE utilization as percentages of their total proposal.

b. The submittals must have all blank spaces on the Schedule pages applicable to the contract correctly filled in. Agreements between a Proposer and a MBE/WBE in which the MBE/WBE promises not to provide subcontracting quotations to other Proposers are prohibited.

6. Evaluation of Compliance Proposals

a. The Proposer's MBE/WBE compliance proposal will be evaluated by the Commission. The Proposer agrees to provide, upon request, earnest and prompt cooperation to the Executive Director or his / her designee in submitting to interviews that may be necessary, in allowing entry to places of business, in providing further documentation, or in soliciting the cooperation of a proposed MBE or WBE firm in providing such assistance. A proposal may be treated as non-responsive by reason of the determination that the Proposer's proposal did not contain a sufficient level of Certified MBE or WBE participation, that the Proposer was unresponsive or uncooperative when asked for further information relative to the proposal, or that false statements were made in the Schedules.

b. If the Commission's review of a Proposer's proposal concludes that the MBE or WBE proposal was deficient, the Commission will promptly notify the Proposer of the apparent deficiency and instruct the Proposer to submit (within 3 business days of such notice given by the Commission) a modification of the MBE or WBE Proposal, in proper format, which remedies the deficiencies cited. Failure to correct all deficiencies cited by the Commission will be cause for rejection of the Proposer's proposal as non-responsive.

c. Proposers will not be permitted to modify their MBE/WBE compliance proposal except insofar as directed to do so by the Commission. Therefore, all terms and conditions stipulated for prospective MBE and WBE consultants or suppliers should be satisfactorily negotiated prior to the submission to the Commission of the Proposer's MBE/WBE compliance proposal. If circumstances should arise, however, where a proposed MBE/WBE is no longer available, the process described in Section 12 should be followed.

d. If the Compliance Proposal includes participation by material suppliers, the PBC will request copies of the offers from such suppliers. The offers must be furnished to the PBC within three (3) business days of the bidder's receipt of the request for such offers from the PBC. The PBC may make such request by electronic mail. The offers must specify: (i) the particular materials, equipment and/or supplies that will be furnished; (ii) the supplier's price for each of the items; (iii) the total price of the items to be furnished by the supplier, (iv) the supplier's source for the items (e.g., manufacturer, wholesaler) and (v) the subcontractor that the supplies will be purchased by.

7. Request for Waiver

a. If a Proposer is unable to identify qualified MBE and WBE firms to perform sufficient work to fulfill the MBE or WBE percentage goals for this Contract, the proposal must include a written request for waiver. A request for waiver must be sent to the Executive Director and must set forth the Proposer's inability to obtain sufficient MBE and WBE firms notwithstanding good faith attempts to achieve such participation.

b. Good Faith efforts to achieve participation include but are not limited to:

(1) Attendance at the Pre-bid conference;

(2) Solicit certified MBE and WBE firms. Soliciting through reasonable and available means at least 50% of MBE and WBE firms certified in the anticipated scope(s) of work.

(3) The Bidder's general policies regarding the utilization of MBE and WBE firms, plus a description of the methods used to carry out those policies;

(4) Advertise the contract opportunity in trade association newsletters, other media, and/or venues oriented toward and minority and woman-oriented;

(5) Timely notification (at least seven (7) days in advance of the bid due date) of specific sub-bid opportunities must be made to MBE and WBE firms and corresponding assistance agencies/associations;

(6) Provide interested MBE and WBE firms with adequate information regarding the plans, specifications, and contract requirements in a timely manner;

(7) Make efforts to assist interested MBE and WBE firms in obtaining bonding, lines of credit, or insurance;

(8) Make efforts to assist interested MBE and WBE firms in obtaining necessary equipment, supplies, materials, or related assistance/services;

(9) Effectively use the services of the City; minority or women community organizations/assistance groups, and other organizations to provide assistance in the recruitment and placement of MBE and WBE firms.

(10) Negotiate in good faith with interested MBE/WBE firms and provide a description of direct negotiations with MBE and WBE firms for specific sub-bids, including:

i. The name, address and telephone number of MBE and WBE firms contacted;

ii. A description of the information provided to MBE and WBE firms regarding the portions of the work to be performed; and

iii. The reasons why additional MBE and WBE firms were not obtained in spite of negotiations.

(11) A statement of the efforts made to select portions of the work proposed to be performed by MBE and WBE firms (such as sub-supplier, transport, engineering, distribution, or any other roles contributing to production and delivery as specified in the contract) in order to increase the likelihood of achieving sub participation;

(12) Decision to reject MBE and WBE firms deemed unqualified must be sound and based on a thorough investigation of firms capabilities. As to each MBE and WBE contacted which the Bidder considers to be not qualified, a detailed statement of the reasons for the Bidder's conclusion;

(13) Efforts made by the Bidder to expand its search for MBE and/or WBE firms beyond usual geographic boundaries.

(14) Must take appropriate, documented steps to follow up initial solicitations with interested MBE and WBE firms.

(15) General efforts made to assist MBE and WBE firms to overcome participation barriers.

c. The Executive Director, after review and evaluation of the request provided by the Bidder, may grant a waiver request upon the determination that:

(1) Sufficient qualified MBE and/or WBE firms capable of providing the goods or services required by the contract are unavailable despite the good faith efforts of the Bidder;

(2) The price(s) quoted by potential MBE and/or WBE firms for goods or services is above competitive levels to an extent unwarranted by any increased cost of doing business attributable to the present effects of disadvantage or discrimination.

8. Established Business Participation in the MBE and WBE Procurement Program

a. A local business entity which meets all the requirements to be certified as an MBE or WBE under this article except that it has become an established business may participate in the minority- and women-owned business enterprise program as follows:

(1) For a one-year period after the business entity has become an established business, only 75 percent of such business's participation in the Contract shall account for the MBE or WBE, as applicable, participation requirement set forth in Section 4;

(2) For a one-year period starting on the one-year anniversary of the date the business entity became an established business, only 50 percent of such business's participation in the Contract shall account for the MBE or WBE, as applicable, participation requirement set forth in Section 4.

(3) For a one-year period starting on the two-year anniversary of the date the business entity became an established business, only 25 percent of such business's participation in the Contract shall account for the MBE or WBE, as applicable, participation requirement set forth in Section 4.

b. An Establish Business entity shall not be eligible to participate in the minority- and women-owned business enterprise procurement program starting on the three-year anniversary of the date the business entity became an established business.

9. Failure To Achieve Goals

a. If the Contractor cannot achieve the contract specific goals, as the Project proceeds, it must have documented its good faith efforts to do so. In determining whether the contractor has made such good faith efforts, the performance of other contractors in meeting the goals may be considered. The Executive Director shall consider, at a minimum, the Contractor's efforts to do the following:

(1) Soliciting through reasonable and available means the interest of MBEs or WBEs that provide interested MBEs or WBEs with adequate information about the plans, specifications and requirements of the contract, including addenda, in a timely manner to assist them in responding to the solicitation.

(2) Provide interested MBEs or WBEs with adequate information about the plans, specifications and requirements of the contract, including addenda, in a timely manner to assist them in responding to the solicitation.

(3) Negotiating in good faith with interested MBEs or WBEs that have submitted bids. Documentation of negotiation must include the names, addresses and telephone numbers of MBEs or WBEs that were solicited; the date of each such solicitation; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why agreements could not be reached with MBEs or WBEs to perform the work. That there may be some additional costs involved in solicitation and using MBEs and WBEs is not a sufficient reason for a contractor's failure to meet the goals, as long as such costs are reasonable.

(4) Not rejecting MBEs or WBEs as being unqualified without sound reasons based on the thorough investigation of their capabilities. The MBEs' or WBEs' standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations are not legitimate cases for rejecting or not soliciting bids to meet the goals.

(5) Making a portion of the work available to MBE or WBE subcontractors and suppliers and to select those portions of the work or material consistent with the available MBE or WBE subcontractors and suppliers, so as to facilitate meeting the goals.

(6) Making good faith efforts despite the ability or desire of a Contractor to perform the work of a contract with its own organization. A Contractor that desires to self-perform the work of a contract must demonstrate good faith efforts unless the goals have been met.

(7) Selecting portions of the work to be performed by MBEs or WBEs in order to increase the likelihood that the goals will be met. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MBE or WBE participation even when the Contract might otherwise prefer to perform these items with its own forces.

(8) Making efforts to assist interested MBEs or WBEs in obtaining bonding lines of credit or insurance as required by the Commission or Contractor.

(9) Making efforts to assist interested MBEs or WBEs in obtaining necessary equipment, supplies, materials or related assistance or services, including participation in a mentor-protégée program; and

(10) Effectively using the services of the Commission; minority or women community organizations; minority or women contractors' groups; local, state and federal minority or women business assistance offices; and other organizations to provide assistance in the recruitment and placement of MBEs or WBEs.

b. In the event the Public Building Commission Procurement Officer determines that the Contractor did not make a good faith effort to achieve the goals, the Contractor may file a Dispute to the Executive Director as provided in the Section on Disputes.

10. Reporting and Record-Keeping Requirements

a. The Professional Service Provider, within 5 working days of contract award, must execute a formal subcontract or purchase order in compliance with the terms of the Professional Service Provider's proposal and MBE/WBE assurances. Upon request by the PBC, the Professional Service Provider must provide copies of the contracts or purchase orders executed between it and the MBE and WBE firms. During the performance of the contract, the Professional Service Provider will submit partial and final waivers of lien from MBE and WBE sub-consultant and suppliers indicating the current payment amount and the cumulative dollar amount of payments made to date.

b. The Professional Service Provider must maintain records of all relevant data with respect to the utilization of MBE and WBE firms, including without limitation payroll records, tax returns and records, and books of account in such detail as the Commission requires, and retain such records for a period of at least 3 years after final acceptance of the work. Full access to such records will be granted to the Commission and/or its designees, on 5 business days' notice in order for the Commission to determine the Professional Service Provider's compliance with its MBE and WBE commitments and the status of any MBE or WBE firm performing any portion of the contract.

c. The Professional Service Provider will file regular MBE and WBE utilization reports on the form entitled "Status Report of MBE and WBE Sub-Contract Payments", at the time of submitting each monthly invoice. The report should indicate the current and cumulative payments to the MBE and WBE sub-contractors.

11. Disqualification of MBE or WBE

a. The Contract may be terminated by the Executive Director upon the disqualification of the Professional Service Provider as an MBE or WBE if the sub-consultants status as an MBE or WBE was a factor in the award and such status was misrepresented by the Professional Service Provider.

b. The Contract may be terminated by the Executive Director upon the disqualification of any MBE or WBE if the sub-consultants or supplier's status as an MBE or WBE was a factor in the award of the contract and the status of the sub-consultant or supplier was misrepresented by the Professional Service Provider. If the Professional Service Provider is determined not to have been involved in any misrepresentation of the status of the disqualified sub-consultant or supplier, the Professional Service Provider shall make good faith efforts to engage a qualified MBE or WBE replacement.

12. Prohibition On Changes To MBE/WBE Commitments

a. The Professional Service Provider must not make changes to its contractual MBE and WBE commitments or substitute such MBE or WBE sub-consultants without the prior written approval of the Executive Director. Unauthorized changes or substitutions, including performing the work designated for a sub-consultant with the Professional Service Provider's own forces, is a violation of this section and a breach of the contract with the Commission, and may cause termination of the contract for breach, and/or subject the Professional Service Provider to contract remedies or other sanctions. The facts supporting the request must not have been known nor reasonably should have been known by the parties prior to entering into the subcontract.

13. MBE/WBE Substitution Requirements and Procedures

a. Arbitrary changes by the Contractor of the commitments earlier certified in the Schedule D are prohibited. Further, after once entering into each approved MBE and WBE sub-contract agreement, the Contractor shall thereafter neither terminate the subcontract, nor reduce the scope of the work to be performed by the MBE or WBE, nor decrease the price to the MBE or WBE, without in each instance receiving the prior written approval of the Executive Director. In some cases, however, it may become necessary to substitute a new MBE or WBE in order to actually fulfill the MBE or WBE requirements. In such cases, the Executive Director must be given reasons justifying the release by the Contractor of prior specific MBE or WBE commitments established in the contract, and will need to review the eligibility of the MBE or WBE presented as a substitute. The substitution procedure will be as follows:

(1) If needed and in order to sustain the fulfillment of the MBE/WBE contract requirements, the Contractor must notify the Executive Director immediately in writing of an apparent necessity to reduce or terminate a MBE or WBE subcontract and to propose a substitute firm for some phase of work.

(2) The Contractor's notification should include the specific reasons for the proposed substitution. Stated reasons which would be acceptable include any of the following reasons: a) unavailability after receipt of reasonable Notice to Proceed; b) failure of performance; c) financial incapacity; d) refusal by the subcontractor to honor the bid or proposal price or scope; e) mistake of fact or law about the elements of the scope of work of a solicitation where a reasonable price cannot be agreed; f) failure of the subcontractor to meet insurance, licensing or bonding requirements; g) the subcontractor's withdrawal of its bid or proposal; or h) decertification of the subcontractor as MBE or WBE.

(3) The Contractor's position must be fully explained and supported with adequate documentation. Stated reasons which will not be acceptable include: replacement firm has been recruited to perform the same work under terms more advantageous to the Contractor; issues about performance by the committed MBE or WBE were disputed (unless every reasonable effort has already been taken to have the issues resolved or mediated satisfactorily); an MBE or WBE has requested reasonable price escalation which may be justified due to unforeseen circumstances.

(4) The Contractor's notification should include the names, address and principal official of any proposed substitute MBE or WBE and the dollar value and scope of work of the proposed subcontract. Attached should be all the same MBE/WBE affidavits, documents and Letters of Intent which are required of the proposed MBE or WBE firms, as enumerated above in Section on Submission of Bid Proposals.

(5) The Executive Director will evaluate the submitted documentation, and respond within fifteen (15) business days to the request for approval of a substitution. The response may be in the form of requesting more information, or requesting an interview to clarify or mediate the problem. In the case of an expressed emergency need to receive the necessary decision for the sake of job progress, the Executive Director will instead respond as soon as practicable.

(6) Actual substitution of a replacement MBE or WBE to fulfill contract requirements must not be made before the Executive Director's approval is given of the acceptability of the substitute MBE or WBE. This subcontract must be executed within five (5) business days, and a copy of the MBE WBE subcontract with signatures of both parties to the agreement should be submitted immediately to the Executive Director.

i. The Executive Director will not approve extra payment for escalated costs incurred by the Contractor when a substitution of subcontractors becomes necessary for the Contractor in order to comply with MBE/WBE contract requirements.

ii. No relief of the MBE/WBE requirements will be granted by the Executive Director except in exceptional circumstances. Requests for complete or partial waiver of the MBE/WBE requirements of this contract must be made in writing, stating all details of the request, the circumstances, and any additional relevant information. The request must be accompanied by a record of all efforts taken by the Contractor to locate specific firms, solicit MBE and WBE bids, seek assistance from technical assistance agencies, and other good faith efforts undertaken to achieve compliance with the MBE/WBE goals.

14. Non-Compliance

a. The Executive Director has the authority to apply suitable sanctions to the Professional Service Provider if the Professional Service Provider is found to be in non-compliance with the MBE and WBE requirements. Failure to comply with the MBE or WBE terms of this contract or failure to use MBE or WBE firms as stated in the Professional Service Provider's assurances constitutes a material breach of the contract, and may lead to the suspension or termination of the contract in part or in whole. In some cases, monthly progress payments may be withheld until corrective action is taken.

b. When the contract is completed, if the Executive Director has determined that the Professional Service Provider did not comply in the fulfillment of the required MBE and/or WBE goals, and a grant of relief of the requirements was not obtained, the Commission will be damaged in the failure to provide the benefit of participation to minority or women business to the degree set forth in this Special Condition. In that case, the Commission may disqualify the Professional Service Provider from entering into future contracts with the Commission.

15. Severability

a. If any section, subsection, paragraph, clause, provision or application of these Special Conditions is held invalid by any count, the invalidity of such section, paragraph, clause or provision will not affect any of the remaining provisions hereof.

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SCHEDULE B

Joint Venture Affidavit (1 of 3)

This form is not required if all joint venturers are* MBE/Non-MBE or WBE/Non-WBE *firms. In such case, however, a written joint venture agreement among the* MBE/Non-MBE or WBE/Non-WBE *firms should be submitted. Each MBE/WBE joint venturer must also attach a copy of their current certification letter.

A. Name of joint venture _____

B. Address of joint venture _____

_____

C. Phone number of joint venture _____

D. Identify the firms that comprise the joint venture

_____

_____

1. Describe the role(s) of the MBE/WBE firm(s) in the joint venture. (Note that a "clearly defined portion of work" must here be shown as under the responsibility of the MBE/WBE firm.)

   _____

   _____

   _____

2. Describe very briefly the experience and business qualifications of each non-MBE/WBE joint venturer.

   _____

   _____

   _____

E. Nature of joint venture's business

_____

_____

F. Provide a copy of the joint venture agreement.

G. Ownership: What percentage of the joint venture is claimed to be owned by MBE/WBE? _____%

H. Specify as to:

1. Profit and loss sharing _____%

2. Capital contributions, including equipment _____%

3. Other applicable ownership interests, including ownership options or other agreements which restrict ownership or control.

   _____

   _____

SCHEDULE B
Joint Venture Affidavit (2 of 3)

4. Describe any loan agreements between joint venturers, and identify the terms thereof.

_____
_____

I. Control of and participation in this Contract: Identify by name, race, sex, and "firm" those individuals (and their titles) who are responsible for day-to-day management and policy decision making, including, but not limited to, those with prime responsibility for:

1. Financial decisions _____

2. Management decisions such as:

   a. Estimating _____

   b. Marketing and Sales _____

   c. Hiring and firing of management personnel _____

   d. Other _____

3. Purchasing of major items or supplies _____

4. Supervision of field operations _____

5. Supervision of office personnel _____

6. Describe the financial controls of the joint venture, e.g., will a separate cost center be established; which venturer will be responsible for keeping the books; how will the expense therefor be reimbursed; the authority of each joint venturer to commit or obligate the other. Describe the estimated contract cash flow for each joint venturer.

   _____
   _____

7. State approximate number of operational personnel, their craft and positions, and whether they will be employees of the majority firm or the joint venture.

   _____
   _____

J. Please state any material facts of additional information pertinent to the control and structure of this joint venture.

_____
_____

SCHEDULE B

Joint Venture Affidavit (3 of 3)

THE UNDERSIGNED SWEAR THAT THE FOREGOING STATEMENTS ARE CORRECT AND INCLUDE ALL MATERIAL INFORMATION NECESSARY TO IDENTIFY AND EXPLAIN THE TERMS AND OPERATIONS OF OUR JOINT VENTURE AND THE INTENDED PARTICIPATION BY EACH JOINT VENTURER IN THE UNDERTAKING. FURTHER, THE UNDERSIGNED COVENANT AND AGREE TO PROVIDE TO THE PUBLIC BUILDING COMMISSION OF CHICAGO CURRENT, COMPLETE AND ACCURATE INFORMATION REGARDING ACTUAL JOINT VENTURE WORK AND THE PAYMENT THEREFOR AND ANY PROPOSED CHANGES IN ANY OF THE JOINT VENTURE AGREEMENTS AND TO PERMIT THE AUDIT AND EXAMINATION OF THE BOOKS, RECORDS, AND FILES OF THE JOINT VENTURE, OR THOSE OF EACH JOINT VENTURER RELEVANT TO THE JOINT VENTURE, BY AUTHORIZED REPRESENTATIVES OF THE COMMISSION. ANY MATERIAL MISREPRESENTATION WILL BE GROUNDS FOR TERMINATING ANY CONTRACT WHICH MAY BE AWARDED AND FOR INITIATING ACTION UNDER FEDERAL OR STATE LAWS CONCERNING FALSE STATEMENTS.

Note: If, after filing this Schedule B and before the completion of the joint venture's work on this Contract, there is any significant change in the information submitted, the joint venture must inform the Public Building Commission of Chicago, either directly or through the Prime if the joint venture is a subcontractor.

_____ Name of Joint Venturer	_____ Name of Joint Venturer
_____ Signature	_____ Signature
_____ Name	_____ Name
_____ Title	_____ Title
_____ Date	_____ Date
State of _____County of_____	State of _____ County of_____
On this _____day of _____, 20___ before me appeared (Name)	On this ____ day of _____, 20_____ before me appeared (Name)
_____, to me personally known, who, being duly sworn,	_____, to me personally known, who, being duly sworn,
did execute the foregoing affidavit, and did state	did execute the foregoing affidavit, and did state
that he or she was properly authorized by	that he or she was properly authorized by
(Name of Joint Venture)	(Name of Joint Venture)
_____ to execute the affidavit and did so as his or her	_____ to execute the affidavit and did so as his or her
free act and deed.	free act and deed.
_____ Notary Public	_____ Notary Public
Commission expires: (SEAL)	Commission expires: (SEAL)

SCHEDULE C
Letter of Intent from MBE/WBE (1 of 2)
To Perform As
Subcontractor, Subconsultant, and/or Material Supplier

Name of Project: _____

Project Number: _____

FROM:

_____ MBE _____ WBE _____
(Name of MBE or WBE)

TO:

_____ and Public Building Commission of Chicago
(Name of Bidder)

The undersigned intends to perform work in connection with the above-referenced project as (check one):

_____ a Sole Proprietor
_____ a Partnership
_____ a Corporation
_____ a Joint Venture

The MBE/WBE status of the undersigned is confirmed by the attached Letter of Certification, dated _____. In addition, in the case where the undersigned is a Joint Venture with a non-MBE/WBE firm, a Schedule B, Joint Venture Affidavit, is provided.

The undersigned is prepared to provide the following described services or supply the following described goods in connection with the above-named project.

_____

_____

_____

_____

The above-described services or goods are offered for the following price, with terms of payment as stipulated in the Contract Documents.

_____

_____

_____

_____

SCHEDULE C
Letter of Intent from MBE/WBE (2 of 2)
To Perform As
Subcontractor, Subconsultant, and/or Material Supplier

PARTIAL PAY ITEMS
For any of the above items that are partial pay items, specifically describe the work and subcontract dollar amount:

_____

_____

_____

_____

If more space is needed to fully describe the MBE/WBE firm's proposed scope of work and/or payment schedule, attach additional sheet(s).

SUB-SUBCONTRACTING LEVELS
____ % of the dollar value of the MBE/WBE subcontract will be sublet to non-MBE/WBE contractors.
____ % of the dollar value of the MBE/WBE subcontract will be sublet to MBE/WBE contractors.

If MBE/WBE subcontractor will not be sub-subcontracting any of the work described in this Schedule, a zero (0) must be filled in each blank above. If more than 10% percent of the value of the MBE/WBE subcontractor's scope of work will be sublet, a brief explanation and description of the work to be sublet must be provided.

The Undersigned (Contractor) will enter into a formal agreement for the above work with the Bidder, conditioned upon its execution of a contract with the Public Building Commission of Chicago, and will do so within five (5) working days of receipt of a notice of Contract award from the Commission.

Additionally, the Undersigned certifies to the best of its knowledge and belief that it, its principals and any subcontractors used in the performance of this contract, meet the Agency requirements and have not violated any City or Sister Agency policy, codes, state, federal or local laws, rules or regulations and have not been subject to any debarment, suspension or other disciplinary action by any government agency. Additionally, if at any time the Contractor becomes aware of such information, it must immediately disclose it to the Commission.

BY:

_____	_____
Name of MBE/WBE Firm (Print)	Signature
_____	_____
Date	Name (Print)
_____	
Phone	

IF APPLICABLE:
BY:

_____	_____
Joint Venture Partner (Print)	Signature
_____	_____
Date	Name (Print)
_____	MBE ____ WBE ____ Non-MBE/WBE ___
Phone	

SCHEDULE D

Affidavit of Professional Service Provider Regarding MBE/WBE Participation (1 of 2)

Name of Project: Environmental Engineering PS3080G

STATE OF ILLINOIS }
} SS
COUNTY OF COOK }

In connection with the above-captioned contract, I HEREBY DECLARE AND AFFIRM that I am the

Arturo Saenz President/Chief Executive Officer

Title and duly authorized representative of

Specialty Consulting, Inc.

Name of Professional Service Provider whose address is

2942 W. Van Buren St. Chicago, IL 60612

in the City of Chicago , State of Illinois
and that I have personally reviewed the material and facts submitted with the attached Schedules of MBE/WBE participation in the above-referenced Contract, including Schedule C and Schedule B (if applicable), and the following is a statement of the extent to which MBE/WBE firms will participate in this Contract if awarded to this firm as the Contractor for the Project.

Name of MBE/WBE Contractor	Type of Work to be Done in Accordance with Schedule C	Dollar Credit Toward MBE/WBE Goals	
		MBE	WBE
		$ TBD	$ TBD
		$	$
		$	$
		$	$
		$	$
		$	$
		$	$
		$	$
Total Net MBE/WBE Credit		$ TBD	$ TBD
Percent of Total Base Bid		TBD %	TBD %

The Prime may count toward its MBE/WBE goal a portion of the total dollar value of a contract with a joint venture equal to the percentage of the ownership and control of the MBE/WBE partner.

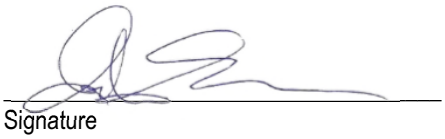
SCHEDULE D

Affidavit of Professional Service Provider Regarding MBE/WBE Participation (2 of 2)

The Undersigned will enter into a formal agreement for the above work with the above-referenced MBE/WBE firms, conditioned upon performance as Contractor of a Contract with the Commission, and will do so within five (5) business days of receipt of a notice of Contract award from the Commission.

Additionally, the Undersigned certifies to the best of its knowledge and belief that it, its principals and any subcontractors used in the performance of this contract, meet the Agency requirements and have not violated any City or Sister Agency policy, codes, state, federal or local laws, rules or regulations and have not been subject to any debarment, suspension or other disciplinary action by any government agency. Additionally, if at any time the Contractor becomes aware of such information, it must immediately disclose it to the Commission.

BY:

Specialty Consulting, Inc.	
Name of Contractor (Print)	Signature
6/10/2024	Arturo Saenz
Date	Name (Print)
312.319.7575	
Phone	

IF APPLICABLE:

BY:

_____	_____
Joint Venture Partner (Print)	Signature
_____	_____
Date	Name (Print)
_____	MBE ____ WBE ____ Non-MBE/WBE ___