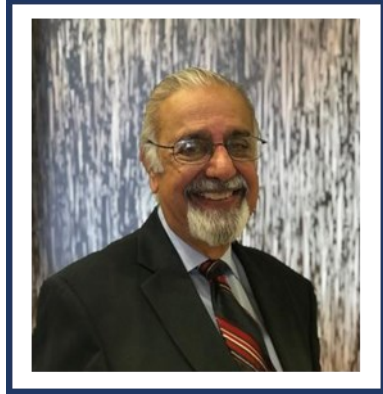




DS CONSULTANTS

NEWSLETTER 2023



Shaheen Ahmad, P.Eng.
Chief Executive Officer
55 Years of Experience

Message from President & CEO:

DS Consultants Ltd. is in the middle of its sixth year, and we are proud to report that DS had developed a very strong and competent staff of over 140 engineers, geologists, hydrogeologists, environmentalists, building scientists, field and laboratory testing staff. DS has opened an office in Hamilton to increase geographic presence. In addition, we have expanded our building science group by adding structural rehabilitation and building condition surveys. We are committed to providing our clients with cost-effective solutions and adhere to our motto "Client First – Quality Always".

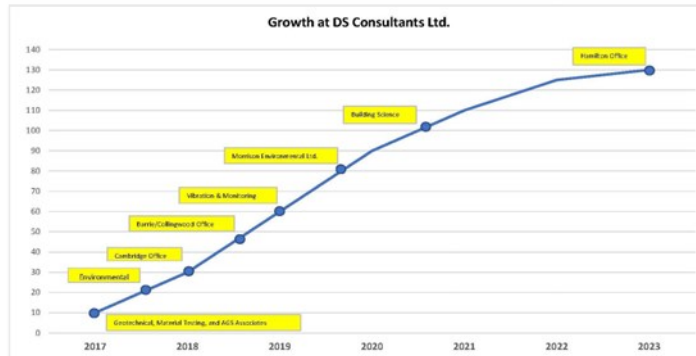
-Shaheen Ahmad & Blaine Dobson



Blaine Dobson, P.Geo.
President
33 Years of Experience

SERVICES

- ✓ Geotechnical Engineering
- ✓ Environmental Site Assessments
- ✓ Hydrogeology
- ✓ Materials Inspection & Testing
- ✓ Building Sciences
- ✓ Concrete Technology
- ✓ Pavement & Asphalt Technology
- ✓ Roofing Inspections
- ✓ Instrumentation & Monitoring
- ✓ Soil Vapor Assessments
- ✓ Structural Steel Inspections
- ✓ Structural Rehabilitation
- ✓ Building Condition Surveys



ASSOCIATIONS & ACCREDITATIONS

- ✓ Professional Engineers of Ontario (PEO)
- ✓ Association of Professional Geoscientists (APGO)
- ✓ Ontario Association of Certified Engineering Technicians and Technologists (OACETT)
- ✓ Canadian Council of Independent Laboratories (CCIL)
- ✓ TARION (Bulletin19)
- ✓ Canadian Nuclear Safety Commission (CNSC)
- ✓ Ministry of Transportation (MTO) - Registry, Appraisal and Qualification System (RAQS)

Message from Erica Pizzola
DS Health & Safety



HEALTH & SAFETY (2023)

At DS Consultants Ltd., our top priority has always been the well-being and safety of our valued employees. As part of our commitment to health and safety, we are proud to announce that we are actively pursuing the Certificate of Recognition (COR) through the Infrastructure Health and Safety Association (IHSA). This certification demonstrates our dedication to maintaining the highest standards in health and safety practices. We firmly believe that all employees deserve to work in an environment free from harm and we will continue to foster a culture that values the safety of all individuals.

VAUGHAN

6221 Hwy #7, Unit 16
Vaughan, ON L4H 0K8
Tel: 905-264-9393
office@dsconsultants.ca

VAUGHAN LABORATORY

6201 Hwy #7, Unit 4
Vaughan, ON L4H 0K7
Tel: 905-264-9393
office@dsconsultants.ca

CAMBRIDGE

125 McGovern Drive, Unit 4
Cambridge, ON N3H 4R7
Tel: 519-260-9393
cambridge@dsconsultants.ca

BARRIE

40 Bell Farm Road, Unit 8
Barrie, ON L4M 5L3
Tel: 705-721-9392
barrie@dsconsultants.ca

HAMILTON

1290 Arvin Avenue, Unit 4
Stoney Creek, ON L8E 0H7
Tel: 905-264-9393
office@dsconsultants.ca

WELCOME TO DS



Efuange Khumbah, M.Sc., P.Eng., QP_{ESA}
Project Manager Environmental
15 Years of Experience



Mann Shukur
Manager, Building Science
25 Years of Experience



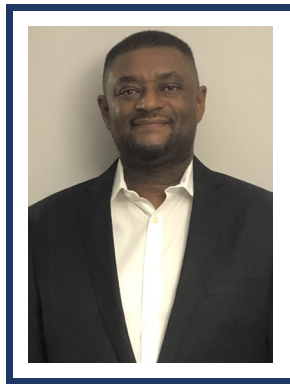
Derek Wang, P.Eng.
Senior Geotechnical Engineer
28 Years of Experience



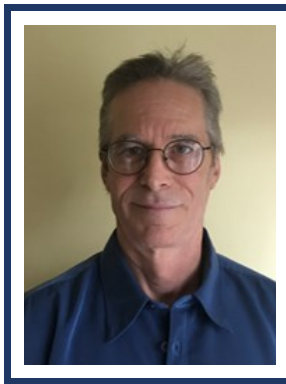
Jari Peikari
Supervisor, Material Inspection Testing (MIT)
48 Years of Experience



Gail Purpura, C.E.T.
Office Manager
37 Years of Experience



Osbert Benjamin, P.Eng.
Manager, Hamilton Office
32 Years of Experience



Keith Clarke, B.Sc.
Senior Project Manager, Environmental
15 Years of Experience



Reese McMillan, M.Sc., QP_{RA}
Head of Risk Assessment
12 Years of Experience



Asia Ali
Human Resource Generalist
4 Years of Experience



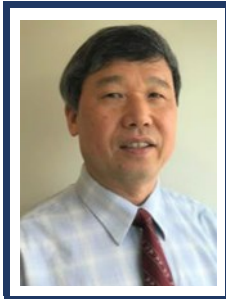
Qutaiba Hammad
Senior Project Manager, Building Science
32 Years of Experience

The Following Individuals Also Joined the DS Team in 2022-23

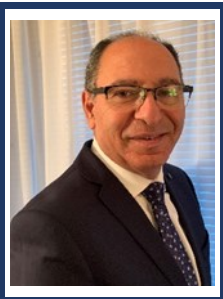
- ◆ Zubair Baggia ◆ Patrick Pokocky ◆ Devdatt Gadhavi ◆ Omar Jaffer ◆ Sameer Abbas ◆ Olughbeg Rahmaty ◆ Saif Yousuf ◆ Kian Lohrum
- ◆ Akif Rahman ◆ Angela Molenaar ◆ Sanjeev Basnet ◆ Fouada Kawkji ◆ Chaitanya Luhar ◆ Prince Sidhu ◆ Jignesh Ladva ◆ Alireza Arabi
- ◆ Miriam Saba ◆ Liam Peng ◆ Hill Patel ◆ Mike Qin ◆ Shizhan Khan ◆ Akshay Senma ◆ Amro Alsmadi ◆ Ali Sharifi Samani
- ◆ Madineh Ghazili ◆ Ritikkumar Borad ◆ Samantha Purpura ◆ Riddhi Gala ◆ Karthikeyan Desikan ◆ Artem Mazur ◆ Azamat Azami ◆ Mridul Saini
- ◆ Kairavi Trivedi ◆ Romil Lathiya ◆ Aymen Hajaj ◆ Priya Kaur ◆ Neel Patel ◆ Mishael Wilcox ◆ Malek Salem ◆ Saseekaran Arumugam
- ◆ Harkanwal Singh ◆ Faizal Mohammed Sali ◆ Jigar Shah ◆ Zihao Ye ◆ Ken Kim ◆ Matthew Roberts ◆ Disha Sharma ◆ Ferhan Dogmusoz
- ◆ Mohamad El Sayed ◆ Sidra Siddiqui ◆ Syed Hossain ◆ Ananthkrishnan Babu ◆ Jay Naik ◆ Timilehin Fifo ◆ Ivan Krivenko ◆

Senior Personnel & Project Information

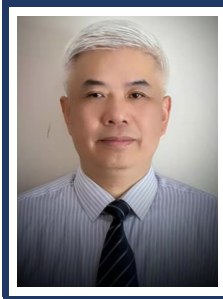
GEOTECHNICAL



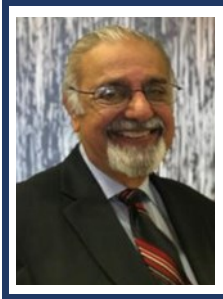
Fanyu Zhu, Ph.D., P.Eng.
Principal Engineer
30 Years of Experience



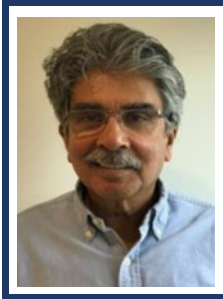
Labib Mousa, P.Eng.
East GTA Manager
25 Years of Experience



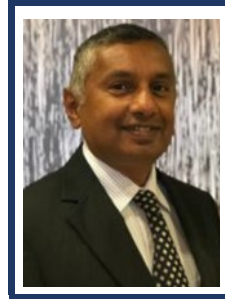
Derek Wang, P.Eng.
Senior Geotechnical Engineer
28 Years of Experience



Shaheen Ahmad, P.Eng.
CEO Senior Consultant
55 Years of Experience



Shabbir Bandukwala, P.Eng., M.Eng.
Principal Engineer
47 Years of Experience



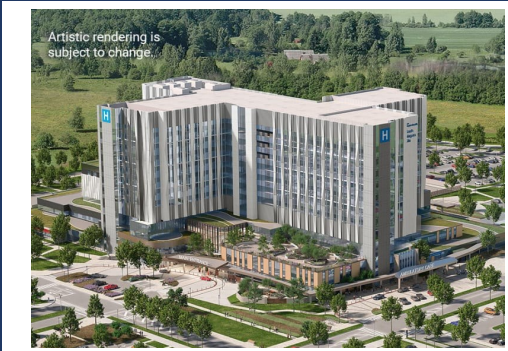
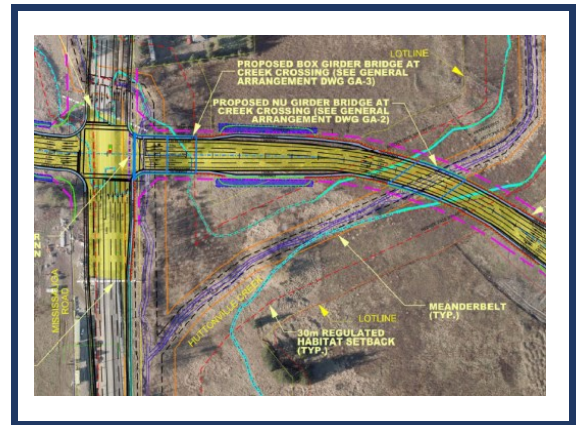
Nirodha Widyaratne, P.Eng.
Manager, Geotechnical
28 Years of Experience

Geotechnical Consulting Services - South Niagara Hospital, Niagara Falls, ON:

DS Consultants Ltd. was retained by EllisDon Corporation to provide geotechnical consulting services for the detail design of the proposed eleven (11) storey hospital building to be located at the northwest Quadrant of Biggar Road and Montrose Road in Niagara Falls, Ontario. Construction on this site started in this summer and the hospital will take five years to build, with occupancy planned for 2028. DS Consultants is also providing material and inspection services on this project.



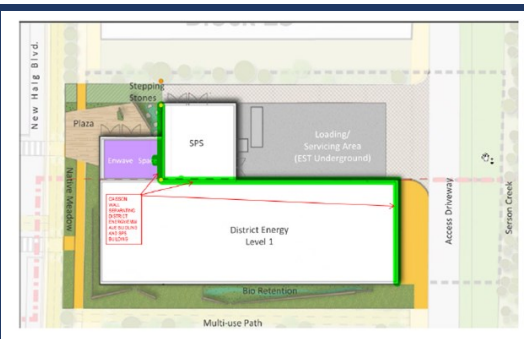
Alka Sangar, P. Eng., M.Eng., B.Eng.
Vice-President
20 Years of Experience



Geotechnical Investigation - Proposed Huttonville Bridges, Lagerfeld Drive, Brampton, ON:

DS Consultants Ltd. (DS) completed a geotechnical investigation for the detailed design of two bridge structures (East and West Bridges) located on the future extension of Lagerfeld Drive to Mississauga Road in Brampton, Ontario.

The bridges are located over Huttonville Creek (East Bridge) and a tributary of Huttonville Creek (West Bridge) immediately east of Mississauga Road and North of Bovaird Drive. The proposed West Bridge will be a two span 47m Precast Box Girder bridge with an overall width of 27.8 meters. The proposed East Bridge will a single span 38m precast girder bridge with an overall width of 22.9 meters. Bridges will entail construction of 5 to 7m high approach embankments.



Geotechnical Investigation - Proposed Sewage Pumping Station (SPS) and Sustainability Centre Lakeview Village – Block 22, 800 Hydro Road, Mississauga, ON:

DS Consultants Ltd (DS) was retained by TYLin (Formerly TMIG) to carry out a geotechnical investigation at Block 22 of the proposed Lakeview Village on the lands of the former Lakeview Power Generation Station in Mississauga, Ontario. Lakeview will feature an innovative Sustainability Centre incorporating District Energy, a Wastewater Pumping Station, and a Learning/Education Centre. Located in the heart of the Lakeview Innovation District and at the eastern end of the Waterway Commons, the building is conceived as a high visibility landmark demonstrating the commitment to sustainable design. DS consultants provided geotechnical and hydrogeological services for the detail design of the proposed structures.

Senior Personnel & Project Information

HYDROGEOLOGY



Martin Gedeon, P.Geo.
Vice-President
28 Years of Experience



Pradeep Patel, P.Geo.
Senior Hydrogeologist
15 Years of Experience



Bill Morrison, P.Eng.
Senior Consultant
57 Years of Experience



Don Hsu, P.Eng.
Senior Project Manager
18 Years of Experience



Hydrogeological Services at VMC Bravo and Block 4, Vaughan, ON:

DS was retained by Menkes Development and Quadreal to complete hydrogeological investigation to support the design of the condominium towers. DS has completed detailed hydrogeological investigation including drilling large diameter pumping wells and completing pumping test to evaluate the aquifer characteristics.

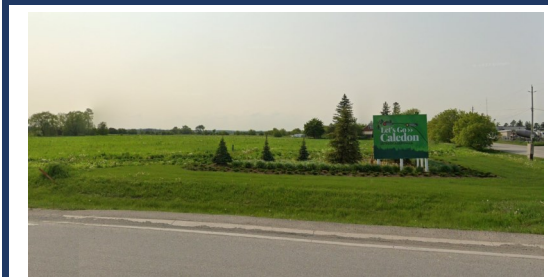
Groundwater quality characterization is critical in the City of Vaughan as permanent ground discharge is only allowed to the Storm sewer. DS will be completing a comprehensive groundwater monitoring program both pre-construction and post construction to support the sewer discharge agreement. DS is looking forward to providing professional services at the VMC Developments.



Hydrogeological Services at Macville, Caledon, ON:

DS was retained by a Landowner's Group to complete a hydrogeological investigation to support the design of a new subdivision along with multiple storm water management pond. DS is currently conducting a detailed hydrogeological investigation including drilling large diameter pumping wells and completing pumping test to evaluate the aquifer characteristics.

Both the Geology and Hydrogeology is very interesting in this area of Caledon as the groundwater conditions will encounter above ground water levels in some areas. In addition the conditions can significantly change within the property boundaries. The hydrogeological results with design considerations for the subdivision and storm water management ponds.



Senior Personnel & Project Information

CAMBRIDGE OFFICE

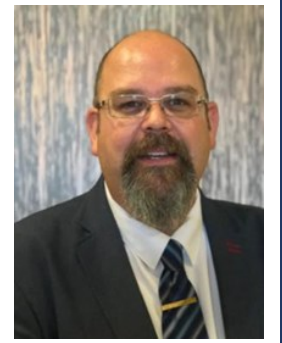


Eva Papp, P.Eng.
 Manager, Cambridge Office
 25 Years of Experience

Cambridge Project: Long Point Causeway Bridge, Long Point, ON

Replacement of existing aging timber bridge and the only access into Long Point, with a new 3 span 35m bridge over Big Creek's outlet into the Long Point Inner Bay. The bridge replacement and causeway reconstruction occurred with precedent setting environmental controls as it is located within the Long Point World Biosphere Reserve. The project received the first approval of its kind from the Department of Fisheries and Oceans to work within critical fish habitat. The landmark bridge replacement and causeway reconstruction also required approvals/coordination between Canadian Wildlife Services, the Long Point Region Conservation Authority, the Ontario Ministry of the Environment, Conservation and Parks, the Ministry of Natural Resources and Forestry and Transport Canada. The bridge replacement required a two stage approach by first building half the new structure beside the existing bridge, opening a single lane of traffic over the new half, removing the old structure and then constructing the other half of the structure. Impressive project feats include completing structural foundation work 2 meters below Lake Erie water levels as well as the use of underwater divers to assist in the timber bridge removal.

DS Consultants was obtained by Norfolk County to oversee the geotechnical materials testing and quality control for this project. DS was involved in widening the existing road, which required stabilization of the existing soils at the leading edge of the marsh. Stabilization was completed by use of large riprap and geotextile below the pavement structure. DS Consultants was also responsible for Designated substance survey (DSS) prior to existing bridge removal, PDA analysis of bridge pilings, retaining wall structures quality control, structural steel inspections, density testing via nuclear densometer, concrete testing and pavements.



Rob Campbell, C.Tech
 Asst Manager, Cambridge Office
 22 Years of Experience

BARRIE & COLLINGWOOD OFFICE



Anton Kostyuk, C.Tech., RCJ
 Supervisor, Barrie Office,
 6 Years of Experience

Barrie Project: Midhurst Heights Materials Phases A/ B Materials Inspection and Testing, ON

The project involves a variety of construction activities from Earthworks, Site servicing and road building, to vibration monitoring, and hydrogeological investigations. The dry SWMP was founded on clay, and the client had concerns about the infiltration in the pond. DS found suitable material on site and recommended the sub-excavation and replacement of the silty clay soils with sandy materials. DS monitored the material excavation and provided guidance on the material placement allowing the client to save money on importing sandfill and ensuring a well infiltrating dry pond. DS provided recommendations and inspection and testing services since day one of the project, the project is well into the road building phase now. The paving is set to be complete before the end of the year. DS will continue to provide geotechnical and materials and testing services for the future phases of the project and will ensure the proper compaction and placement of materials and geotechnical guidance as needed.

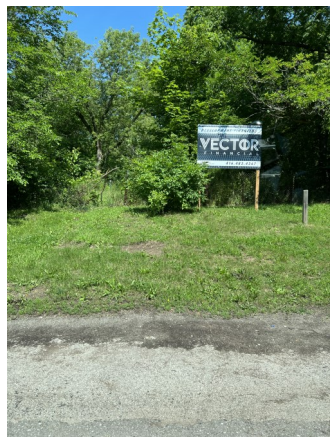


Our Barrie Office opened its doors to serve Simcoe, Bruce and Grey Counties in 2018.

HAMILTON OFFICE



Osbert Benjamin, P.Eng
 Manager, Hamilton Office
 32 Years of Experience



Hamilton Project: Brock Street North, Dundas, ON

The site is located at 24 Brock Street North, Dundas, Ontario, and is bounded by vacant land (which is understood to be former industrial development) to the west, the Niagara Escarpment to the north, Brock Street to the east and residential development to the south. The site will be developed to include a four (4) storey residential building with two levels of underground parking. The site is generally underlain by shallow overburden generally consisting of cohesionless sand to sandy gravel and silty sand deposits followed by clayey silt till/shale complex and underlying Queenston Shale Bedrock. Located at the foot of the Niagara Escarpment, the site has unique challenges of water bearing cohesionless granular deposits with generally shallow bedrock which drops off quite significantly in the south/southeast quadrant of the site and impacting choice of foundation and shoring system for the proposed building.

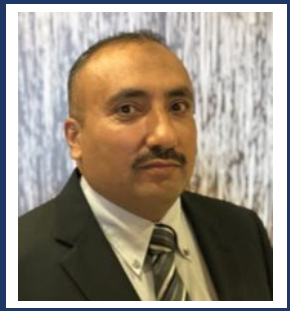
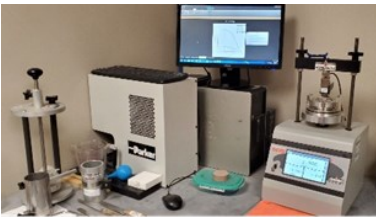
DS has undertaken preliminary and supplemental geotechnical investigations, a hydrogeological study for the planned project and is working closely with the Owner and design team to inform on the optimal geotechnical and hydrogeological considerations for the site to advance the approvals process and push towards construction.

Senior Personnel & Project Information

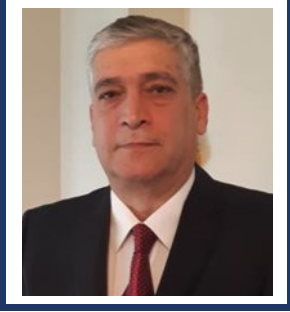
MATERIALS INSPECTION & TESTING (MIT)



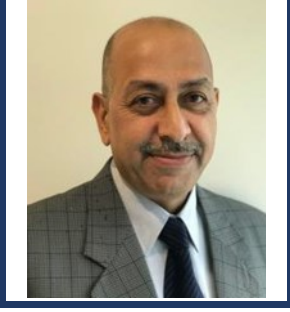
Blaine Dobson, P. Geo.
President
33 Years of Experience



Ibrahim Hajjaj, CET
Manager, Materials Testing
29 Years of Experience



Ali Al-Shalah, P. Eng., PMP
Radiation Safety Officer (RSO)
23 Years of Experience



Mohamad Sulaiman, P. Eng.
MIT Supervisor
23 Years of Experience

Joshua Creek, Oakville, ON:

DS has provided inspection and testing services for Mattamy Homes on multiple phases of this residential development in north Oakville. Already five years in, development construction will likely continue for another five years before this project is complete. DS is excited to be part of the team building this development and endeavors to work with developers, contractors, municipalities and other consultants to ensure a successful project.



Lakeview Village, Mississauga, ON:

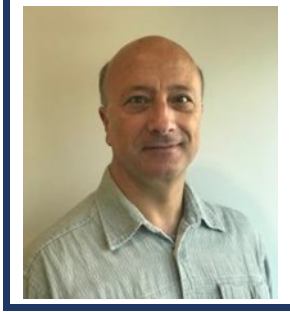
The site of a former power generating plant is being redeveloped as a dynamic lakefront urban village. Up to 8,000 new condo units are envisioned utilizing a community energy system that provides heat and cooling to all buildings. DS provided inspection and testing services for earthworks and is currently engaged in a similar capacity with servicing and road construction. Working with the development team, DS provides regular feedback on the quality of construction and addresses concerns as they arise to help keep the project on budget and schedule.



Keith Buth, CET
Vice-President, Land Development
31 Years of Experience



Jatinder Sudan
MIT Supervisor
23 Years of Experience



Jordan Gadjanov
Laboratory Manager
27 Years of Experience



Kirupa Saravanamuthu
Laboratory Supervisor
27 Years of Experience

Senior Personnel & Project Information

ENVIRONMENTAL



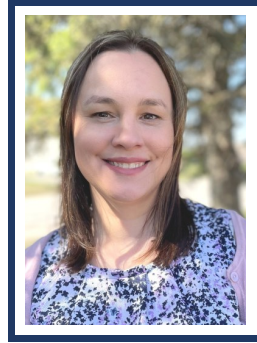
Rick Fioravanti, P.Geo., QPESA
 Manager, Environmental
 12 Years of Experience



Kirstin Olsen, M.Sc.
 Environmental Project Manager
 7 Years of Experience



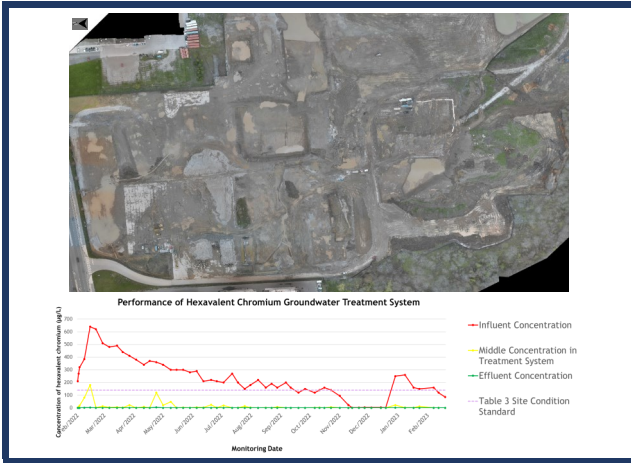
Keith Clarke, B.Sc.
 Senior Project Manager
 15 Years of Experience



Reese McMillan, M.Sc., QPRA
 Head of Risk Assessment
 12 Years of Experience



Efuange Khumbah, M.Sc., P.Eng., QPESA
 Project Manager Environmental
 15 Years of Experience



Environmental Services - Ex-Situ Treatment of Chromium and Hexavalent Chromium in Groundwater – Milton, ON:

DS was retained to provide full suite of services including environmental, geotechnical, hydrogeological and materials inspection/testing services for a legacy Brownfield property in Milton. The property was historically used as an automotive spring manufacturer facility and included an unregulated landfill.

Extensive soil contamination was identified within footprint of former manufacturing facility. Groundwater plume of chromium and hexavalent chromium impacts identified between the former facility and the landfill.

DS completed a Pilot Scale pump and treat program in 2022 to remediate the groundwater impacts. Successful pilot test results shown on graph beside. Full scale treatment system based on the pilot system was implemented in April 2023. RSC filing anticipated 2024-2025 for future residential use.



Environmental Services - Installation of Permeable Reactive Barrier – Industrial Property, Etobicoke, ON:

Property historically featured an underground storage tank used for solvent storage. Tank had been decommissioned in the past, however residual VOC impacts in groundwater persisted.

DS identified potential for off-site migration of vinyl-chloride impacted groundwater to neighbouring commercial property. Screening Level Risk Assessment was completed for purposes of due diligence and to assess potential risk to on and off-site receptors.

Permeable Reactive Barrier (PRB) was recommended and installed near property boundary to mitigate potential for off-site migration of contamination, thereby reducing potential liability, and to meet requirements of financial institution.

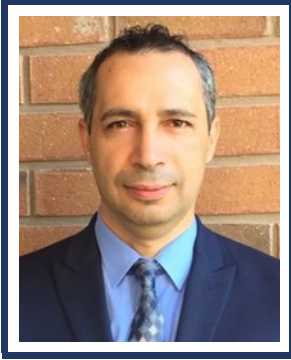
Licensed remediation contractor retained by DS on behalf of owner to excavate trench to intercept zone of groundwater impact. The trench was approximately 30m in length, 1.5m wide, and 6m deep. Trench backfilled with mixture of Daramend and washed concrete sand. This mixture was formulated to facilitate both biotic and abiotic catalysis of the contaminant of concern.

Long term performance of PRB to be assessed through groundwater monitoring. Anticipated life span is approximately 10 years, coinciding with intended timeframe for redevelopment of the property.



Senior Personnel & Project Information

BUILDING SCIENCE



Ibrahim El-Hajj
Vice-President, Building Science
27 Years of Experience

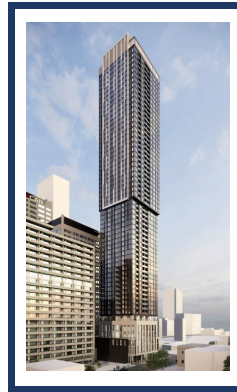
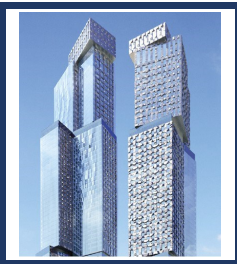


Maan Shukur
Manager, Building Science
25 Years of Experience



Qutaiba Hammad
Senior Project Manager, Building Science
32 Years of Experience

One Yonge Phase 2 - 11 Yonge Street, Toronto, ON:
95-storey mixed use tower and hotel with six underground parking garage is considered Canada's tallest building.
DS Consultants Building Science teams is involved in Tarion Bulletin 19 inspections and testing.



36 Eglinton:
A 61-story condominium with Podium on five level underground parking garage.
This condominium tower was designed by Wallman Architects for Lifetime Developments on the northeast corner of Duplex Avenue and Eglinton Avenue West, in Toronto's Midtown.
The building science team is engaged in providing Tarion Bulletin 19 inspection, Building Envelope and testing services.

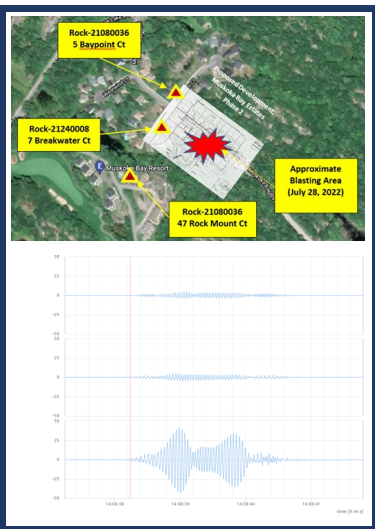
Forma Tower - 266-270 King Street West, Toronto, ON:
Forma presents unparalleled architecture and interior design to create a world-class condominium masterpiece. Standing 73 story tall with four underground parking garages at the nexus of the entertainment and financial districts in Toronto, Forma will be Frank Gehry's tallest residential towers, offering breathtaking views, bespoke suite finishes, elevated lifestyle amenities and services, wellness spaces, entertainment lounges, creative coworking spaces and an outdoor terrace to call home.
DS Consultants Building Science teams is involved in Tarion Bulletin 19 inspections, Building Envelope and testing, reporting to Tarion.

VIBRATION & MONITORING



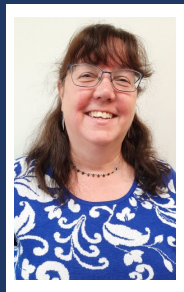
Ling Zhou, P.Geo.
Manager, Vibration & Monitoring
21 Years of Experience

Vibration & Monitoring Services - Muskoka Bay Estates
DS is fully equipped with real-time remotely operating vibration monitoring units and has completed over twenty vibration monitoring projects for a variety of clients from public and private sectors. DS also provides specialized vibration monitoring for blasting operations. DS currently has its own state of the art vibration monitoring units and a team of experts and technicians that conduct vibration monitoring flawlessly, with a highly efficient communication system with the stakeholders. DS experts provide Vibration Zone of Influence calculations, vibration monitoring planning and reporting and review for municipalities.
DS recently completed a vibration monitoring project for a blasting operation in Muskoka for a subdivision development.

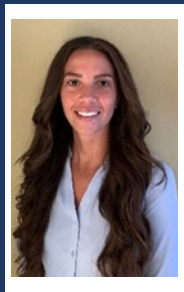


Marco Santilli, B.A.Sc., E.I.T.
Senior Geotechnical Technician
30 Years of Experience

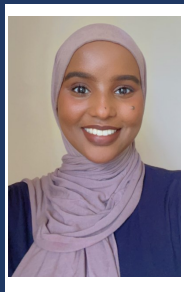
ADMINISTRATIVE TEAM



Gail Purpura, C.E.T
Office Manager, Administrator
37 Years of Experience



Erica Pizzola, CRST
Health and Safety Officer
7 Years of Experience



Asia Ali
Human Resources Generalist
4 Years of Experience



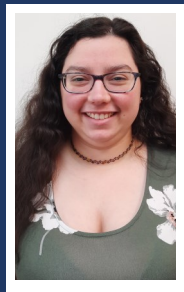
Bindu Goel
Accountant Manager
10 Years of Experience



Raj Rao
Accounting Manager
15 Years of Experience



Riddhi Gala
Junior Accountant
6 Year of Experience



Samantha Purpura
Admin Assistant
1 Year of Experience

DS TEAM AT RECREATION

6 Year Anniversary



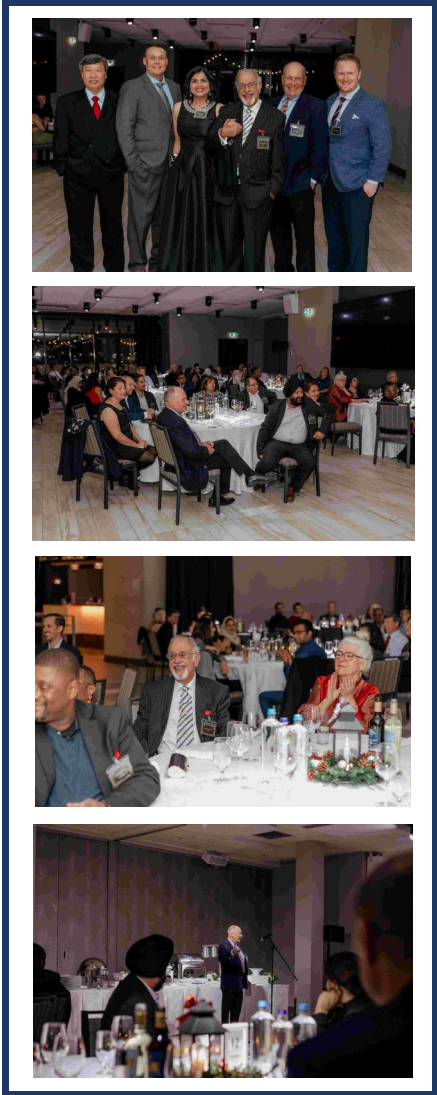
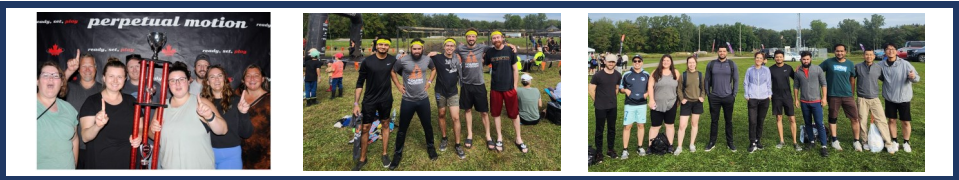
5 Year Anniversary



Company Picnic 2023



DS Activities 2023



Christmas Party 2022