Matthew Dumont, E.I.T.

Associate Environmental Engineer

Waterstone Environmental, Inc.

Mr. Dumont is an associate environmental engineer at Waterstone Environmental, and his primary responsibilities include fieldwork activities and management, supervision of subcontractor operations, spreadsheet and data management, report preparation, and litigation support. Mr. Dumont began his career at Waterstone Environmental in the summer of 2017. Mr. Dumont completed his Bachelor of Science in Civil Engineering in 2015 and a Master of Engineering in 2016, both from the University of New Hampshire.

Mr. Dumont is experienced in pre-field planning of numerous types of investigation activities; including support in preparing project proposals and budgets, procuring permits, working with laboratories performing analytical testing, and coordinating with drilling and construction subcontractors. Mr. Dumont has extensive experience involving soil sampling, groundwater monitoring well installation and sampling, soil vapor well installation and sampling, soil vapor extraction system operation and maintenance, indoor air sampling, radiofrequency and electromagnetic field monitoring, and oversight of an assortment of crews in relation to hand augering, hollow stem drill rigs, direct push drill rigs, Cone Penetrometer (CPT) units. In addition to executing the fieldwork, Mr. Dumont is experienced in data management and evaluation, soil logging and preparation of geologic soil borings, preparation of figures and cross-sections, report preparation, and litigation support.

Education and Certificates

- B.S., Civil Engineering, University of New Hampshire, Durham, 2015.
- M. Eng., Civil Engineering, University of New Hampshire, Durham, 2016.
- Engineer In Training (E.I.T.) Certificate, No. 6738.
- Certificate of Environmental Management (CEM), University of California-Irvine, 2020.

Specialized Training

- OSHA 40-HR HAZWOPER Training, 2017-Current
- CPR and First Aid Training, 2017-Current

Capabilities

- Soil and Groundwater Sampling
- Soil Vapor and Temporary Groundwater Well Installation
- Fieldwork Activities and Management
- Supervision of Direct Push, Hollow Stem Auger, and Cone Penetrometer (CPT) Rigs
- Groundwater Quality Monitoring
- Operation and Maintenance of Soil Vapor Extraction Systems
- Radiofrequency and Electromagnetic Field Monitoring
- Environmental Site Assessments (Phase I/Phase II)
- Phase I and II Report Preparation
- Database Management and Processing
- Litigation Support
- Computer Aided Drafting and Modeling Programs

Key Projects and Experience

Environmental Site Assessments

- Mr. Dumont has conducted numerous Phase I Environmental Site Assessments at residential, commercial, and industrial properties throughout California for a variety of clients; including banks, land development companies, and local government. Each of these projects required arranging site visits with representatives of the property, visual assessment of the property, research of the potential environmental concerns at the property and adjacent properties at local agencies, conducting file reviews, performing interviews with site contacts, review of historical aerial photographs and maps, evaluation of previous environmental reports, and preparation of a report that identified and summarized the potential for environmental impact to the property, as well as provide recommendations for further evaluation.

Site Characterization and Fieldwork Capabilities

- Mr. Dumont has directed and managed a variety of field work activities for Phase II Environmental Site Assessments for evaluating known or potential sources of contamination on commercial, industrial, and residential parcels throughout Southern California. Phase II projects have included sampling and evaluation of results for soil, soil vapor, indoor air, and groundwater impacts. Chemicals of concern encountered on sites include, but are not limited to, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), polyaromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), metals, and pesticides. During each sampling activity, Mr. Dumont was responsible for ensuring proper collection, preservation, and handling of samples; classification and logging of soil; and making decisions for additional sampling at each field location. Additionally, Mr. Dumont was responsible for assuring proper utility clearance was conducted prior to all subsurface investigations and for monitoring the health and safety for himself and subcontractors during all sampling events.

- Mr. Dumont has performed oversight activities in association with groundwater sampling and groundwater remediation for both discrete and quarterly groundwater monitoring events. Mr. Dumont has supervised single and multi-nested groundwater well installation and well development activities, directed the collection of grab groundwater samples using Hydropunch samplers, and overseen and collected groundwater samples from wells using both standard and low-flow purging techniques. Mr. Dumont has been involved with groundwater remediation strategies, including air sparge and dual phase extraction remediation systems. Groundwater remediation O&M responsibilities overseen by Mr. Dumont include collection of samples, measurement of groundwater conditions, performance of system maintenance, and collaboration with subcontractors to optimize the remediation system performance.

- Mr. Dumont has successfully exhibited the ability to supervise multiple subcontractors and project team members, uphold a good rapport with tenants and the local community, and confidently interact with lead agencies while performing project tasks to completion in a timely manner. His professional relationship and open line of communication with

facility owners and operators has helped increase and maintain the trust and confidence of clients.

Vapor Intrusion Evaluation and Remediation

- Mr. Dumont has extensive experience in performing soil vapor surveys in accordance with the DTSC/LARWQCB *Advisory for Active Soil Gas Investigations* (July 2015) for soil vapor well installation and sampling. He has completed numerous soil vapor surveys under these guidelines for both VOCs and methane and is experienced in the evaluation of soil vapor data relative to various regulatory screening levels and attenuation factors. Mr. Dumont has been involved with soil vapor remediation strategies, including soil vapor extraction systems. Soil remediation O&M responsibilities performed by Mr. Dumont include collection of samples, measurement of soil vapor conditions, performance of system maintenance, and collaboration with subcontractors to optimize the remediation system performance.

- Mr. Dumont is well versed in performing indoor air sampling in accordance with the DTSC *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (October 2011), as well as the *Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion* published by DTSC/RWQCB in February 2020. He has conducted numerous indoor air sampling events and building surveys under these guidelines both for due diligence and under the oversight of local agencies.

Soil Remediation Projects

- Mr. Dumont has assisted in the management of and performed sampling for both small- and large-scale soil remediation projects for refineries, oilfields, and industrial properties. Remedial activities performed by Mr. Dumont have included the oversight of multiple crews conducting excavation using backhoes, excavators, scrapers, and large-diameter auger equipment. Mr. Dumont has directed excavation crews to separate and stockpile materials based on hazardous characteristics, collected confirmation samples, overseen the placement and compaction of backfill material, maintained a daily photo log and sketches of continually changing site conditions, and maintained open channels of communication with clients, subcontractors, laboratory personnel, and oversight agencies.

- Mr. Dumont has been directly involved with air monitoring of VOCs under the Air Quality Management District (AQMD) Rule 1166 at multiple excavation sites in Southern California. By keeping organized and detailed notes, he has been prepared to present all necessary field documentation to agency representatives that visit the field site. Mr. Dumont has also trained onsite subcontractors to thoroughly and accurately conduct air monitoring under their own Rule 1166 permits.

Industrial Compliance

- Mr. Dumont performed extensive characterization sampling and evaluation of PCBs present within the concrete walls and floor of an active steel manufacturing facility. Mr. Dumont designed and coordinated sampling strategies which are conducted as part of an

annual monitoring program under EPA oversight, in accordance with Title 40 of the Code of Federal Regulations (40 CFR) Section 761.61(c), to ensure the facility to continue manufacturing processes without endangering worker safety.

School District Projects

- Mr. Dumont worked as field manager for a local community college district demolition and new construction project. He mitigated construction response activities while maintaining site safety and managing environmental removal areas during demolition. Mr. Dumont assisted in the implementation of all aspects of DTSC-approved sampling and RAP removal areas. Key responsibilities were to perform and oversee construction response activities, to communicate regular progress of the project activities with project managers and lead college district management and perform sampling and assessment of unknown environmental conditions.

- Mr. Dumont performed evaluations for the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS) to determine if the radio frequency and electromagnetic field emittance from various devices pose a threat to human health. Mr. Dumont collected field measurements using monitoring devices and performed power density calculations in accordance with LAUSD guidelines. Mr. Dumont compared the results of the evaluations to LAUSD thresholds and determined if there was a risk to human health.

Litigation Support

- Mr. Dumont has worked on several expert witness testimony presentations for litigation cases nationwide. He has been responsible for preparation of exhibits for trial and expert reports, database management and analysis, document management and review, and the production of presentation materials for expert witness testimony. He has been involved in litigation projects based in California and Federal courts for properties including oil refineries and large parcels slated for development.