

E&M Engineers and Surveyors, PC

Springville, New York 14141
(716) 592-2851

Bradford, Pennsylvania 16701
(814) 362-5546

www.emengineers.com

E & M Engineers and Surveyors, P.C. can provide many of the engineering services required by companies in oil and natural gas production.

As Civil Engineers and Surveyors, with offices in Springville, NY and Bradford, PA, we can serve the needs of the oil and gas industry in New York and Pennsylvania.

SURVEYING

E&M has a staff of educated and experienced personnel who utilize the most modern survey equipment to quickly and accurately measure a site. Modern total stations, GPS units, two-way radios, well-equipped vehicles and in-house computers with state of the art software are utilized by our trained personnel in the survey and mapping process.

Our Surveying capabilities include GPS for well location, preparation for well plats, topographic and boundary mapping and construction stakeout.

SERVICES IN NEW YORK

In New York State, E&M Engineers and Surveyors PC can provide land and topographic surveying and mapping and assistance with stormwater and stream crossing permits.

NYSDEC PERMITS

We have prepared various DEC permits for many years. These include Stream Disturbance Permits and SPDES Permits for Stormwater Discharge from Construction Activities.

Stream Disturbance Permits are submitted on the Joint Application Form. These permits are required for any stream bank or bed disturbance of a Class C(t) or higher stream. A completed short form Environmental Assessment Form is also required.

NYSDEC also requires a Stormwater Permit for construction operations. The General Permit (GP-0-10-001) authorizes stormwater discharge from construction sites where soil disturbance is one acre of land or greater. This area includes the immediate construction site and any access roads or pipelines associated with it. The permit requires that a stormwater pollution prevention plan (SWPPP) be prepared and a Notice of Intent (NOI) be submitted a minimum of 5 days prior to the beginning of construction. The permit requires inspection of the stormwater facilities once each week by a qualified inspector and that the site operator have a "trained contractor" on site during any earth disturbance operations. E&M is experienced in all aspects of the SPDES process and has a staff of qualified inspectors to conduct the weekly monitoring.

SERVICES IN PENNSYLVANIA

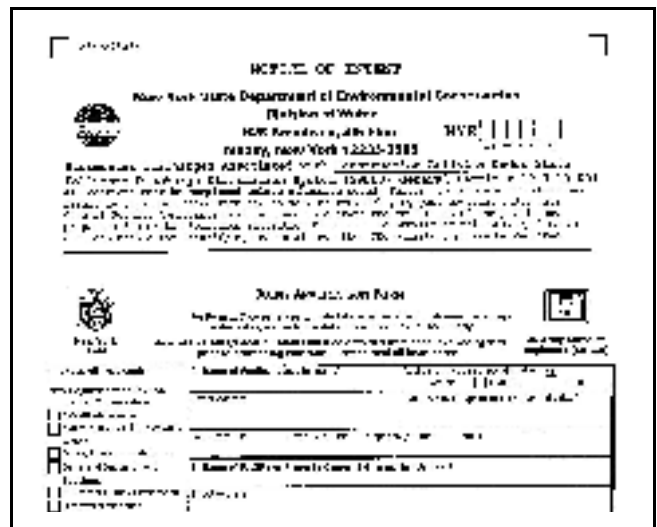
Our capabilities include stormwater management control, erosion and sediment control plans, permitting, and access road and drill pad design. We can also design containment impoundments.

We have prepared SPCC (Spill Prevention Control and Countermeasure) plans, and PPC (Preparedness, Prevention and Contingency) plans.

In Pennsylvania, we can prepare the ESCGP-1 application. This is an oil and gas industry specific general permit for controlling Erosion and Sediment created by drilling. This fulfills the requirements of the DEP by using the best management principals from the Oil and Gas Operations Manual, PA Stormwater BMP Manual, and the Erosion and Sediment Pollution Control Program Manual.

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We have two registered professional engineers that have completed the PA DEP training course to qualify for the expedited review of the ESCGP-1. (14 business days instead of the normal 60 calendar days.)

We can assist in the registration with PA DEP for Chapter 105 General Permits including utility line stream crossings (GP-5), minor road crossing (GP-7) and temporary road crossings (GP-8). We can also assist with the registration for the GP-11 (maintenance, testing, repair, rehabilitation or replacement of water obstructions and encroachments) including the preparation of plans, specifications and hydrologic & hydraulic reports by a registered professional engineer as required.

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