



Maryland
Department of
the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

March 20, 2019

Ms. Jamila S. Chillemi
Team Lead - Mid-Atlantic Project Execution
ExxonMobil Environmental Services Company
1900 East Linden Avenue, Building 28A
Linden, New Jersey 07036

RE: APPROVAL OF PROPOSAL FOR NATURAL ATTENUATION EVALUATION
Case No. 2006-0303-BA
Former Exxon R/S No. 2-8077
14258 Jarrettsville Pike, Phoenix
Baltimore County, Maryland

Dear Ms. Chillemi:

The Maryland Department of the Environment's (MDE) Oil Control Program recently completed a review of the *Proposal for Natural Attenuation Evaluation*, dated Feb. 4, 2018. Kleinfelder, on behalf of ExxonMobil, proposes to collect data from select monitoring wells to evaluate if subsurface conditions at the site are conducive to natural attenuation and biodegradation of residual petroleum contamination in the project study area. A total of 40 monitoring wells were selected within the petroleum release area, the core area of the contaminant plume, the area down-gradient of the plume, and background areas outside the petroleum impact zone for the collection of natural attenuation evaluation data.

Data collection will include biotrap samplers in select monitoring wells to assess the presence of microbes that can degrade gasoline constituents, including methyl tertiary-butyl ether, and if the microbes are active. In addition, geochemical data such as dissolved oxygen, pH, temperature, oxidation reduction potential, nitrate, sulfate, ferrous iron, methane, and orthophosphate via field instruments, test kits, or laboratory analysis will be collected to evaluate if groundwater conditions are conducive to natural attenuation and biodegradation of residual gasoline constituents remaining on site.

The MDE approves the *Work Plan* and requests that a report of results and evaluation be submitted to the Oil Control Program. Notify the case manager at least 5 working days prior to conducting any field activities so we have an opportunity to be on site to observe the work.

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If you have any questions, please contact the case manager, Ms. Ellen Jackson, at 410-537-3482 or ellen.jackson@maryland.gov.

Sincerely,



Andrew B. Miller, Chief
Remediation and State-Lead Division
Oil Control Program

cc: Joseph P. Perez, Esquire (ExxonMobil Corporation)
Carlos Bollar, Esquire (Archer & Greiner, P.C.)
Mr. Mark Schaaf (Kleinfelder East, Inc.)
Mr. Kevin Koepenick (Groundwater Management Section, Baltimore County DEPS)
Ms. Ellen Jackson (Northern Region Supervisor, Remediation Division, Oil Control Program)
Mr. Christopher H. Ralston (Administrator, Oil Control Program)
Stephanie Cobb Williams, Esquire (MDE Office of the Attorney General)
Ms. Kaley Laleker (Director, Land and Materials Administration)